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Transcript of Meeting of
Pesticide Program Dialogue Committee
Conference Center - Lobby Level
2777 Crystal Drive (One Potomac Yard South)
Arlington, Virginia
November 8 & 9, 2006

COMMITTEE MEMBER ATTENDANCE LIST

1
2 Jim Jones Director, Office of Pesticide
3 Programs, OPPTS, Chairperson
4 Margie Fehrenbach Designated Federal Officer, OPP
5
6 Adam Sharp Congressional Relations,
7 American Farm Bureau Federation
8 Dr. Jose Amador Director, Agricultural Research
9 & Extension Center, Texas A&M
10 Cindy Baker President, Exigent Company
11 Lori A. Berger Ph.D., Director of Technical
12 Affairs, California Minor Crops
13 Council
14 Carolyn Brickey Executive Director, Protected
15 Harvest
16 Amy Brown Coordinator, Pesticide Safety
17 Education Program, Univ. of MD.
18 N. Beth Carroll, Ph.D. Senior Stewardship Manager,
19 Syngenta Crop Protection
20 Richard Colbert Director, Agriculture Division,
21 Office of Enforcement and
22 Compliance Assistance, EPA

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1	(11/8 only)	Legislative and Public Affairs,
2		Consumer Specialty Products
3		Association
4	Susan Little	Consumer Specialty Products
5	(11/9 only)	Association
6	Gary Libman	Vice President, Regulatory
7		Affairs and Quality Assurance,
8		Emerald BioAgriculture
9		Corporation
10	Amy Liebman	Environmental Health Consultant,
11		Migrant Clinician Network
12	Angus Kelly	California Cotton Growers
13		Association
14	Patrick Quinn	Principal, The Accord Group
15	Dr. James Roberts	Associated Director of
16		Pediatrics, Medical University
17		of South Carolina
18	Robert Rosenberg	Director, Government Affairs,
19		National Pest Management
20		Association, Inc.
21		<u>ATTENDANCE LIST (cont'd)</u>
22	Jennifer Sass	Senior Scientist, Natural

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1 Resources Defense Council
2 John Schell, Ph.D. Vice President, Toxicologist
3 BBL Sciences
4 Mary Ellen Setting Assistant Secretary, Office of
5 Plant Industries & Pest
6 Management, Maryland Department
7 of Agriculture
8 Dr. Hasmukh Shah Managing Director, American
9 Chemistry Council
10 Julie Spagnoli Executive Director, Regulatory
11 Affairs, Clorox Services Company
12 Dr. Warren Stickle President, Chemical Producers &
13 Distributors Association
14 Ray McAllister President & CEO, CropLife
15 America
16 James Wallace, Jr. Manager, North American
17 Registration Section
18 Joseph Conlon Technical Advisor, American
19 Mosquito Control Association
20

21 **ATTENDANCE LIST (cont'd)**

22 Kristie Stoick Research Analyst, Physicians

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1 Committee for Responsible
2 Medicine
3 Matthew Keifer Associate Professor, School of
4 Public Health and Community
5 Medicine
6 Dennis Howard Chief, Bureau of Pesticides,
7 Florida Dept. of Agriculture &
8 Consumer Services
9 Rodney Guske Salt River Pima-Maricopa Indian
10 Community
11 Dr. Robert Holm Executive Director, IR-4 Project
12 Carol Ramsay Extension Pesticide Education
13 Specialist, Washington State
14 University
15 Michael Kashtock Office of Plant and Dairy Foods,
16 CFSAN, FDA
17 Rebecca Derr Lead Region Coordinator, Office
18 of Compliance and Enforcement,
19 EPA
20

21 P R O C E E D I N G S

22 - - - - -

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1 DAY ONE - NOVEMBER 8, 2006

2 MR. JONES: Good afternoon. Welcome, all of
3 you, to Potomac Yard. This, I think, is our second PPDC
4 meeting in our new facility. Margie points out to me
5 this is actually the 21st meeting of the Pesticide
6 Program Dialogue Committee. We're about ten years old as
7 a FACA and this is our 21st meeting.

8 We actually have a couple of enhancements to the
9 facilities that hopefully we'll get to experience today
10 that the last meeting -- as most of our meetings, it's
11 very difficult to have visuals so that no one's got to be
12 craning their neck or turning around or just sitting on
13 the side. We have now some screens over here that
14 hopefully will allow us to be on all four sides of the
15 table and no one have to turn their neck too far to be
16 able to see the presentations. So, I'm very pleased with
17 that.

18 And we actually have a system set up now such
19 that we don't have in the middle of the circle or the
20 square big funky AV equipment. It's now up there
21 somewhere. So, I'm very pleased with the way this
22 facility's turning out.

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1 I'm pleased that this afternoon, a little later
2 on, Jim Gulliford, who is the Assistant Administrator for
3 the Office of Prevention, Pesticides and Toxic
4 Substances, the parent office of OPP and my boss, will be
5 joining us. I expect many of you have not had an
6 opportunity to interact or meet with Mr. Gulliford and
7 this will be a nice opportunity for all of you as well as
8 it will be for Jim, who will be sitting next to Anne
9 (inaudible). He'll actually sit through the spray drift
10 discussion later on this afternoon.

11 I want to remind folks that this is a Federal
12 Advisory Committee, and as such, is governed by the
13 Central Advisory Committee Act, which is a law in the
14 United States that provides guidance requirements for how
15 the Federal Government gets advice, designed pretty much
16 to ensure that in getting advice from stakeholders, there
17 is equitable opportunity for stakeholders, that the
18 Government doesn't just listen to one set of stakeholders
19 at the exclusion of others. So, the requirements include
20 things such as just there needs to be broad participation
21 across the stakeholders, which this committee achieves;
22 that there be open meetings, which this committee has

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1 both for its full committee meetings and its work group
2 meetings; and that we post agendas in the Federal
3 Register, which we do as well. So, I think it's just
4 useful to remind folks that there are -- there's a law
5 that governs how the agency gets advice and we are a
6 FACA, Federal Advisory Committee Act, work group.

7 We do also tape the meetings, so it is important
8 to use the microphones, as we will ultimately transcribe
9 it to create the record for this meeting, which we find
10 to be very helpful. I mean, this really is an
11 opportunity for EPA to get advice and we take that very
12 seriously, and it isn't unusual for us to go back to the
13 tapes just to make sure we were hearing things
14 accurately. So, I want to make sure that you're using
15 your microphone. You pretty much just push that button
16 and the mic will activate. And always introduce yourself
17 before you start speaking, so that when we're
18 transcribing it, we know who said what.

19 A little later in the agenda, actually, the next
20 agenda item up, you're going to get a summary of our --
21 from Debbie Edwards, the Director of the Special Review
22 and Reregistration Division, about our Old Chemicals

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1 Program, and not to take any of her thunder away, I don't
2 want to miss an opportunity to brag a little bit about
3 our organization. It's been -- since the last time we
4 met, August 3rd came and went, and this program, I think,
5 achieved a pretty monumental accomplishment in basically
6 meeting the FQPA requirements around tolerance
7 reassessments. I think most of you are probably familiar
8 with how that has played out.

9 There was one chemical, aldicarb, which did not
10 get completed due to some restrictions on the agency
11 imposed by Congress last year, but we're well on the way
12 to finishing that last one up. But I'm not -- and Debbie
13 will get into greater detail. I'm not familiar with
14 another EPA organization or, frankly, another Federal
15 agency, although I assume there's one out there, that has
16 had such an all-encompassing requirement to review, it's
17 a large number of chemicals for safety or, frankly, any
18 other sort of comprehensive programmatic review in a
19 short period of time if Congress gives EPA and the
20 Pesticides Program under FQPA, who was able to do it and
21 do it on time.

22 And I'm incredibly proud of what this

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1 organization was able to do over the past 10 years. The
2 people who have -- are here right now, as well as the
3 many who worked here during that entire 10-year period,
4 it couldn't have been achieved without the combined
5 efforts of all the people in this program over that
6 period of time. It's really quite noteworthy. And
7 Debbie's going to get into specific detail, giving you
8 somewhat of an accounting around that, and we have taken
9 some of your advice to heart around how we talk about our
10 accomplishments and that we get -- we talk not just about
11 the numbers, but about the results associated with it,
12 and I think you'll see that pretty clearly in Debbie's
13 presentation.

14 If you know, as Chair of the PPDC, I have tried
15 to do -- have more of the work done of the Committee
16 through work groups. One of the things that I've
17 observed over the years is that the issues that we deal
18 with in the Pesticides Program are quite complex and it's
19 very hard to get advice on complex issues when a group
20 gets together a couple of times a year and spend an hour
21 or maybe an hour and a half on any given issue. And so,
22 we began to try out, instead of doing that, having work

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1 groups set up amongst this Committee, which is something
2 we have done in the past. We're relying more often on
3 work groups. When the work group gets together for a day
4 or a day and a half, sometimes once or maybe more than
5 once, in between the PPDC meeting, and so, when the full
6 Committee reconvenes, there is a meaningful subset of
7 this Committee who have really invested the kind of time,
8 energy and thought that is necessary really to, I think,
9 proffer well-informed advice.

10 And I think that that's served us well and we're
11 going to continue to use that model. So, you know, if
12 you're looking to really make a difference in terms of
13 making sure your advice is being offered, I really would
14 strongly encourage you to take advantage of this
15 Committee structure. If you're participating in the
16 Committee, you're going to have an opportunity, first, to
17 learn more, and by learning more, I think be able to
18 offer more informed advice, which is pretty important for
19 us to be getting informed advice.

20 We'll probably initiate a new committee during
21 this meeting around registration review, which is sort of
22 different from the one that many of you participated on

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1 that helped to create that program. Now we're going to
2 have one that's going to help us on implementation.
3 We'll talk about that later, probably tomorrow, when
4 we're talking about registration review.

5 And we may be ready to de-commission one because
6 I think that the group that was working on performance
7 measures has given us -- and we'll see this later in the
8 meeting, probably actually tomorrow, they've given us
9 very thoughtful advice. And I think it's important that
10 once you accomplish your task, you move on to another
11 one. But we'll cross that bridge tomorrow after we've
12 heard from that work group.

13 So, we're going to continue to rely, in this
14 meeting, on the committee structure, and we have two of
15 our committees who will be reporting out today.

16 And with that, why don't we spend a minute going
17 over the agenda. We start, as we usually do, with just
18 some programmatic updates around our registration
19 program, our reregistration and old chemicals programs.
20 And then, a follow-up to a discussion we had at our last
21 meeting around a pilot exercise we had with the Office of
22 Water around OPP using data coming from the states

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1 associated with impaired water bodies. We're going to
2 have a summary of that -- a continuation of that work as
3 well.

4 We're going to hear from the Performance
5 Measures Work Group, which has drafted a report for our
6 consideration. One of the other rules around the FACA is
7 that advice to the agency needs to come from the full
8 Committee, so when you have a work group, the work group
9 brings its product to the full Committee and then the
10 full Committee meets to decide whether or not to adopt
11 the report or recommendations of the subcommittee, and
12 so, the Performance Measures Work Group, which has done a
13 very nice job of giving insight into our performance
14 measures in the Pesticides Program, will be -- actually,
15 you all have it because it was sent to you about two
16 weeks ago. This Committee will then be asked whether or
17 not to endorse those recommendations, and that's what
18 we'll be doing right after the updates.

19 The work group on worker risk met this morning
20 and they will be providing an update for us next and then
21 the work group on spray drift, which met all day
22 yesterday and this morning, will be giving us their

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1 report out. We'll have public comment and then break for
2 the day.

3 Tomorrow, as much as I tried to avoid this, I
4 think that we're at somewhat of a critical crossroads in
5 OPP. What I've tried to avoid is too much of us talking,
6 which I'm obviously off to a bad start on that. But
7 where we're just talking to you and telling you about
8 ourselves and what we're doing, and I've tried to have
9 these meetings be much more about you reporting your
10 observations based on largely work group experiences.
11 But we're about to embark on a new -- our new Old
12 Chemicals Program registration review and there are --
13 there are a couple of elements of that that are also --
14 have new characteristics associated with them. They're
15 not new -- for example, the Species Acts are not new.

16 And so, we're going to be spending time tomorrow
17 talking about, first, the registration review program and
18 what our plans are around that, and that's where we'll
19 have this discussion about the work group. We're going
20 to give you an update on the Endangered Species Act,
21 which is going to be our work to get into compliance with
22 Endangered Species is a very critical element of our

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1 registration review program, which is why that follows it
2 directly.

3 We want to give you a sense as to how we're
4 beginning to think about nanotechnology, which is
5 emerging technology, another new thing, and then an
6 update on Endocrine Disruptors Screening Program, which
7 is a program mandated by FQPA that heretofore has been
8 largely focused on developing test methods. In the not
9 too distant future, it's going to go from methods
10 development to program implementation. Program
11 implementation will happen here.

12 And so, there's somewhat of a method to our
13 madness here of why these things are all following
14 registration review. So, there will be a little bit more
15 of the classic talking heads that we've tried to avoid,
16 but this is a time in our program where we need to begin
17 to give you a sense as to how we're going to be going
18 forward in these areas and we'll be looking for some
19 ideas back from you as to how you'd like to participate.
20 We have some ideas around that.

21 And then the last topic tomorrow morning will be
22 an update on something this Committee has spent some time

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1 on several years ago and we periodically get an update,
2 and that's around alternative testing. So, that's pretty
3 much the agenda over the course of the next two half days
4 or of someone who one full day.

5 With that, I would like to go around the room
6 and have people introduce themselves. If you are here on
7 behalf couldn't make it and come to the meeting, if you
8 can just make reference to that, that you're -- who you
9 are, who you're with and who you're here representing.

10 MS. LINDSAY: I'm Anne Lindsay, Deputy Office
11 Director for Programs in the Pesticide Program.

12 MR. STUBBS: I'm Don Stubbs, I'm the Associate
13 Director for the Registration Division.

14 MR. McALLISTER: Ray McAllister with CropLife
15 America. I'm here on behalf of Jay Vroom.

16 MS. SPAGNOLI: Julie Spagnoli, Clorox.

17 MR. ROSENBERG: Bob Rosenberg, National Pest
18 Management Association.

19 MS. SETTING: Mary Ellen Setting, Maryland
20 Department of Agriculture.

21 MR. CONLON: Joe Conlon, American Mosquito
22 Control Association.

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1 DR. ROBERTS: James Roberts, Medical University
2 of South Carolina.

3 MR. WALLACE: Jim Wallace, S.C. Johnson.

4 MS. COX: Caroline Cox, Center for Environmental
5 Health.

6 DR. HOLM: Bob Holm, IR-4 Program.

7 MS. RAMSAY: Carol Ramsay, Washington State
8 University.

9 DR. AMADOR: Jose Amador, Texas A&M in Weslaco.

10 MS. SASS: Jennifer Sass with NRDC here in
11 Washington.

12 MS. DAVIS: Shelley Davis, Farmworker Justice.

13 MS. DERR: Rebecca Derr, EPA, on behalf of Mike
14 Bussell.

15 MR. HOWARD: Dennis Howard, Florida Department
16 of Agriculture.

17 MR. SHARP: Adam Sharp, Ohio Farm Bureau,
18 representing Rebeckah Freeman with American Farm Bureau.

19 MS. BAKER: Cindy Baker with the Galiant Group
20 Company.

21 DR. STICKLE: Warren Stickle with the Chemical
22 Producers and Distributors Association.

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1 DR. SCHELL: John Schell with BBL Sciences.

2 MS. KENNEDY: Caroline Kennedy, Defenders of
3 Wildlife.

4 MR. KEIFER: Matthew Keifer, University of
5 Washington.

6 DR. CARROLL: Beth Carroll, Syngenta Crop
7 Protection.

8 MR. QUINN: I'm Pat Quinn with the Accord Group.

9 MR. KELLY: I'm Angus Kelly with the National
10 Cotton Council filling in for Cannon Michael who is a
11 California cotton farmer.

12 DR. BERGER: Lori Berger, California Specialty
13 Crops Council.

14 MR. LIBMAN: I am Gary Libman representing the
15 biopesticide industry with GNL Consultation Services.

16 DR. FRY: I'm Michael Fry with the American Bird
17 Conservancy.

18 MR. KLEIN: I'm Phil Klein with the Consumer
19 Specialty Products Association.

20 MS. LIEBMAN: I'm Amy Liebman with the Migrant
21 Clinicians Network.

22 MR. GUSKE: Rodney Guske for the Tribal

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1 Pesticide Program Council for Jeremy Phillips.

2 MR. GASPARINI: Frank Gasparini with RISE
3 sitting in for Allen James.

4 DR. KAWAMOTO: Melody Kawamoto, DCD, National
5 Institute for Occupational Safety and Health.

6 MR. COLBERT: Rick Colbert, EPA's Office of
7 Compliance.

8 MR. KASHTOCK: Mike Kashtock, Food and Drug
9 Administration representing Nega Beru.

10 MS. BROWN: I'm Amy Brown, University of
11 Maryland, representing the American Association of
12 Pesticide Safety Educators.

13 MR. JENNINGS: Al Jennings, USDA.

14 MS. MONELL: Marty Monell, Deputy Director,
15 Office of Pesticide Programs for Management.

16 MR. JONES: Okay. One last thing before we get
17 started on our first agenda item. We talked at our last
18 meeting -- I made a commitment to all of you that I would
19 explore some opportunities outside of the PPDC to have
20 some dialogue around pesticides and the safety educator
21 program funding, which is something that I believe is not
22 just EPA responsibility but something that's shared

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1 responsibility amongst probably most of the groups
2 represented in this room, maybe some who aren't.

3 And we have begun to have those discussions
4 internally and we've had some preliminary ones with USDA,
5 but at this meeting, I'm not prepared to say, and here's
6 what we have to suggest as an alternative forum to
7 discuss that. But we're going to continue those
8 discussions inside of the government, and hopefully, by
9 the time we get together the next time, we'll be able to
10 say here's our idea.

11 Okay, with that, I am going to turn it over to
12 Don Stubbs, who is the Associate Director of the
13 Registration Division in OPP.

14 MR. STUBBS: Thank you, Jim. I want to quickly
15 go through an update on the registration activities for
16 OPP.

17 First, our new active ingredients, we registered
18 32 new active ingredients this year. Eleven of them were
19 conventional pesticides. Of those, eight were import
20 tolerances only and not registrations. They're listed
21 above there. We have Nicarbazin -- if I can pronounce
22 these things -- Metofluthrin and Furfural, which were all

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1 registrations. Then Fenpropimorph, Benthiavalicarb,
2 Epoxiconazole, Dithianon, Metrafenone, Ethaboxam,
3 Metconazole, etc. They were all import tolerances.

4 (Laughter).

5 MR. STUBBS: And they get worse as we go along.
6 We also had 15 biopesticides that we registered, and some
7 of these I can pronounce and some I can't and I'm not
8 even going to try. But there they are.

9 A couple interesting ones, coyote urine, good
10 for the coyote, Methyl Eugenol, Potassium Silicate,
11 Ammonium Nonanoate and some others.

12 In addition, we had six antimicrobial new
13 chemicals registered. These were Benzoic acid, Bis(3-
14 aminopropyl) dodecylamine and some others.

15 I'd also like to point out so far in FY '07,
16 we've registered two new active ingredients. One is
17 Polymeric Betaine, which is an antimicrobial. The other
18 one is BT corn, MIR Cry3A. I was told to make sure I
19 said that. That's in a biopesticide.

20 New uses, we approved 186 new uses associated
21 with 723 different crops. That's because some of these
22 we've categorized in crop group. Of these 186 new uses,

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1 we covered 44 conventional chemicals. Within that 186
2 new uses, we did 40 reduced risk new uses and four OP
3 alternative new uses.

4 In addition, we approved 10 new uses of
5 previously registered antimicrobial ingredients.

6 Under the Section 18 activity, we received 419
7 emergency exemptions. We approved 278 of those. We did
8 not deny any. We did have 22 withdrawn and we had 36
9 crises declarations taken. The turnaround time on the
10 emergency exemptions was 48 days if you exclude the
11 soybean rust 18s. To include those, it was around 68
12 days now. The reason for the time increase is a handful
13 of those were new chemicals being looked at under the
14 Section 18 program and they take a little bit more time
15 to look at all that data.

16 Registration activity for fast track and non-
17 fast track items. For fast track amendments, which do
18 not fall under the PRIA categories (inaudible), we
19 processed 3,332 actions. Most of that's where we get a
20 lot of our workload. The breakdowns by division are
21 underneath if you want to look at those.

22 For non-fast track amendments, what we call R34,

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1 for those that use (inaudible), 332 were processed.

2 For fast track new products, these are R codes
3 30 through 37, 308 were processed; and for non-fast track
4 new products, R31 through 33, 492.

5 Inert ingredients, for new inert ingredients, we
6 processed 13 in FY '06. We had 26 petitions received.
7 Of those, we scheduled 11 for FY '07. Fifteen have yet
8 to be scheduled because they're missing some information.
9 We haven't scheduled out FY '07 entirely yet. But we
10 have scheduled 26 because there were another 15 that were
11 in house prior to FY '06 that we had gone ahead and
12 scheduled. So, everything prior to FY '06 has been
13 scheduled and most of FY '06 has been scheduled. We
14 anticipate scheduling the rest -- honestly, we had our
15 focus on tolerance inert reassessments for the most part
16 this year through August 3rd.

17 PRIA performance, since the start of PRIA, we've
18 processed 4,193 submissions. We've completed -- or we've
19 received, excuse me. We've completed about 2,950.
20 Ninety nine percent have been completed by their PRIA
21 goal or before. That means 1 percent weren't.

22 Twenty-five not grants have been issued. That's

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1 less than 1 percent. And 396 of the actions we've had to
2 renegotiate a due date on, about 9 percent.

3 Breaking that down, AD had one not grant of a
4 total of 705 actions; BPPD had 15 not grants of a total
5 of 378; and RD only had nine out of 3,110 actions.

6 Actions with negotiated due dates, AD had to
7 renegotiate 140 out of 705; BPPD, 107 out of 378; and RD,
8 149 out of 3,110 actions.

9 And, finally, new active ingredients currently
10 pending with the agency. We have 22 conventional new
11 active ingredients pending; of those, 20 are tied with a
12 registration action, and two of them are strictly the
13 tolerance import petition. We have 24 biopesticide new
14 active ingredients pending. We have 11 antimicrobial new
15 active ingredients pending.

16 Currently, these are all -- we plan to make the
17 PRIA date, of course, and they're all scheduled actually
18 to be completed prior to the PRIA date. That's my update
19 on registration activities. Any questions?

20 Ms. Sass: This is just a clarification because
21 I don't understand this. Earlier
22 -- let's see, on page four, anyway, is the fast track --

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1 what are the fast tracks? Is that the reduced risk and
2 minimum risk ones?

3 MR. STUBBS: No, fast tracks are -- actually fit
4 -- are substantially similar -- there are two types, one
5 is substantially similar to another pesticide
6 registration; the other is a fast track amendment that
7 (inaudible) to an amended registration. And they're
8 called fast tracks because they're required to be done
9 within 90 days. They're actually some of our more
10 simpler actions.

11 Ms. Sass: Thank you.

12 Mr. McAllister: Is there anything in particular
13 to account for the high number of import tolerances
14 during the past year?

15 MR. STUBBS: Yeah, actually, there is. Prior to
16 PRIA when we were doing actions based on a priority type
17 system, we didn't give a lot of priority to import
18 tolerances. And so, the petitions that were in-house
19 kind of stacked up. With PRIA and the payment of fees,
20 everything in-house was scheduled to be done, and so, we
21 picked up a lot of those tolerances that we had not done
22 in the past which happened to be import tolerances.

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1 Mr. McAllister: So, these are actually
2 holdovers from PRIA days.

3 MR. STUBBS: These are holdover from PRIA days,
4 correct.

5 MR. JONES: Gary?

6 MR. LIBMAN: Very interesting presentation,
7 appreciate it. I'm kind of curious about these
8 negotiated due dates. It seems like my beloved division,
9 the biological one, has almost like 30 percent on
10 negotiated due dates. Is there any sense of what those
11 negotiations are all about or is that something
12 (inaudible)?

13 Ms. Monell: Yeah, we've done an analysis of it
14 and predominantly, there are issues around product
15 chemistry and -- and those issues also primarily arise
16 with smaller companies and I think the Biopesticide
17 Division tends to see a larger proportion of smaller
18 countries -- companies, less sophisticated, may not be
19 part of associations and so forth.

20 So, it -- but the actual reason in-house is
21 because of failure of -- around product chemistry issues.

22 MR. LIBMAN: Thank you.

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1 MR. JONES: Okay, Debbie Edwards, who's the
2 Director of the Special Review and Reregistration
3 Division.

4 **(Brief pause in the proceedings.)**

5 MR. SHARP: While you guys are getting that
6 ready, I actually have one --

7 MR. JONES: Adam Sharp.

8 MR. SHARP: One quick question while you guys
9 are getting your next slide ready. Just on the Section
10 18 activities, just throwing together some of the math on
11 that, there's like 120 some that are still sitting, I
12 assume, that there's been no action on, and then I
13 noticed that the average turnaround time is about 48 days
14 and that seems higher than maybe it had been in the past.

15 Can you explain to me a little bit about what
16 the function is around -- or what's happening in the 18
17 Program?

18 MR. STUBBS: The number of 18s we get,
19 obviously, depends on what's submitted, and we get them
20 at given sets of times. They fluctuate, of course,
21 depending on the pest season and where you are. Right
22 now, you would see 18s coming in for (inaudible) the

1 herbicide season, which probably starts in April. What
2 we try to do is because about 60 percent of these are
3 repeats, we ask the states to get them in early so we can
4 process them early.

5 Also, you've got to get your -- the companies
6 have to have their pesticide product lined up and ready
7 to go. They start selling and moving that stuff around
8 right about now or actually more like September/October.
9 So, you'll see a lot of them coming in now. You'll see
10 the next peak generally around January for the
11 insecticides coming in for us in -- later in the season
12 in July and August. So, that's why we've got quite a few
13 still left in-house.

14 As far as the 48-day turnaround time, you know,
15 that's gone up a little bit in the past, but I think a
16 lot of that has to do with we spent a heck of a lot of
17 time on soybean rust and a whole slew of chemicals and
18 products not only for soybeans but for the legume
19 vegetables. I think that's driving part of it.

20 MR. JONES: Michael?

21 MICHAEL: Yes, continuing on the Section 18
22 stuff, there were 36 crises declared. I think there was

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1 a change in law that made it a requirement that EPA
2 approve crises declared by the states before they were
3 done, and you had a 36-hour turnaround time on that. I
4 think a very, very short turnaround time.

5 Were there any of these crises that were denied
6 or -- I know there were a couple of them where greater
7 restrictions were put on, but were any of these crises
8 denied?

9 MR. STUBBS: You know, I'm not sure if they were
10 or not. What we -- on the crises, what we've told them
11 is that that come in beforehand to make sure if they're
12 going to go crises that we can set a tolerance to cover
13 the resulting food residues and (inaudible), and they do
14 do that, they do come in advance. And I don't think we
15 probably would deny one per se. It would be like, well,
16 we can't set the tolerance based on what we have at this
17 time for this use, and so, they wouldn't take the crisis.
18 So, I don't -- you know, if you want to call that a
19 denial -- I don't think it's a denial, I think, you know,
20 they come in with an idea that they've got an emergency
21 and this will do it, and they find out that we can't set
22 the tolerance and then they'll go look for something

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1 else.

2 MICHAEL: The idea that you have a request to --
3 for them to send their information in ahead of time,
4 isn't that kind of, by definition, not a crisis?

5 MR. STUBBS: Again, what we're looking at there
6 is can we support the residue tolerance picture on that
7 use, okay? So, we can do that fairly quick unless you
8 come in with a brand new active ingredient, which I don't
9 think we allow under crises anyway.

10 We're not looking at the nature of the emergency
11 at this point in time. So, all we're doing is trying to
12 take a quick look and see that we can support tolerances
13 if they use it. If we can, we let them know. The state
14 goes crisis and uses the pesticide, follows it up with a
15 specific, and at that time, we'll start looking at
16 whether or not an emergency existed in doing the
17 paperwork to set the tolerance to the Federal Register.

18 MR. JONES: (Inaudible) the way you were the 24,
19 36 hours. They give us notice that they're going to
20 issue a crisis and that gives us the time to determine
21 whether or not we're going to be able to set a tolerance
22 or we have -- maybe any other issue that we would want to

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1 discourage them from issuing that (inaudible).

2 Okay, Debbie?

3 MS. EDWARDS: Yes, okay, I'm on. All right.
4 What I want to talk to you today mostly is about what
5 we've achieved in the last 10 years and what our path
6 forward is for '07, '08 and so forth.

7 Jim mentioned we feel we've had quite an
8 accomplishment record over the last 10 years. Within
9 that decade since FQPA was passed in 1996, we completed
10 over 99 percent of the required tolerance reassessment
11 decisions and over 99 percent of the reregistration
12 eligibility decisions that needed to be done by August
13 3rd, which are the food use chemicals. And through this,
14 we believe we've enhanced human health and environmental
15 protection.

16 You know back in 1996, FQPA set the new safety
17 standard, which was the reasonable certainty of no harm.
18 We were to reassess nearly 10,000 tolerances within 10
19 years and look at the greater susceptibility for infants
20 and children, aggregate exposure, cumulative, as well as
21 the possible endocrine or estrogenic effects. And we
22 were to complete one-third of those tolerances within

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1 three years, 66 percent within six years and 100 percent
2 within 10 years and that's where we are, at 99 percent
3 right now.

4 Through this process, we have recommended the
5 revocation of over 3,000 tolerances and we are well on
6 our way to achieving that through our tolerance rule.
7 We've also recommended modification, that could be
8 raising or lowering tolerances, or changing the tolerance
9 definition of over 1,300 tolerances, and then we've
10 reconfirmed the safety of around 5,000.

11 Every time we come we show you this chart. It's
12 looking pretty well filled in now. You'll see there
13 we've got percentage reassessed 100 percent down the
14 entire right-hand side except for the carbamates, and
15 those are the 1 percent that we're talking about.
16 There's a few carbamate tolerances that haven't been
17 completely reassessed yet.

18 These are the remaining 84 tolerances for five
19 pesticides that need to be reassessed to meet that final
20 1 percent. You can see again they're all N-methyl
21 carbamate pesticides. Once we complete aldicarb, which
22 as Jim mentioned earlier, and the N-methyl carbamate

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1 cumulative assessment, we will be able to say that we
2 have reassessed 100 percent of the tolerances.

3 In addition, we were to reevaluate pesticides
4 first registered before November 1984 not just for their
5 food use situations of, you know, the tolerance
6 reassessment, but as well the worker risks, ecological
7 risks and so forth. PRIA told us we needed to complete
8 all the food use REDs by August 3rd of 2006. At the same
9 time, we reassessed the tolerances. Again, we've done 99
10 percent of those REDs and the REDs that aren't done are
11 the ones pretty much on the previous slide, and some -- a
12 couple others I'll mention in a minute.

13 The non-food use REDs are to all be completed by
14 October 3rd of 2008. We have a schedule in place to do
15 that and we're on track to complete that on time.

16 We started out with 613 chemical cases. We've
17 done 330 REDs. 229 were actually voluntarily canceled.
18 There are 58 REDs yet to complete. That's 9 percent of
19 them. But 47 of those are non-food REDs that don't need
20 to be done anyway until October of 2008 as a final
21 deadline, and those remaining seven with food uses.

22 This is just reiterating some of the things I

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1 mentioned before. We've completed decisions for 91
2 percent of the reregistration cases, 99 percent on time
3 that were food uses. This has actually resulted in over
4 4,000 end-use product registrations being canceled, and
5 for the rest, we believe that we've ensured that the
6 products can be used safely with the label amendments
7 that we've required through the REDs.

8 For the cumulative assessments, there were four
9 to do. We've completed three of those. The
10 organophosphates were completed this past July; triazines
11 in April; and chloroacetanilides in March. We have been
12 or will be looking at all the public comments we've
13 received on these and determine if any changes are needed
14 in those cumulative assessments.

15 Again, the final one is to be completed this
16 year. That's the N-methyl carbamate cumulative
17 assessment.

18 I'll talk a little bit about some of the
19 results, focusing principally on organophosphates. I
20 know last time people said they'd like to see results.
21 Obviously, we need to get more of this information out
22 possibly through web venues and other meeting venues, but

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1 I want to give you a little summary of some of our key
2 accomplishments we think we've seen for OPs here today.

3 We've reassessed 1,700 tolerances for the
4 organophosphate pesticides and assured they meet the
5 safety standard for the ones that are able to remain.
6 There's been a voluntary cancellation or phase-out of 18
7 of the 49 original organophosphate insecticides on the
8 market -- that were originally on the market. We believe
9 we've made food safer through this process, eliminating a
10 lot of the pesticide uses that drive the risks or
11 reducing the use rates and increasing the PHIs and so
12 forth so that the allowable residues are safe.

13 To get specific about OP, there's been a
14 cancellation or phase-out -- this number's actually
15 wrong. It's over 60 pesticide uses on kids' foods.

16 In terms of residential risk, we believe we've
17 made risks in homes and schools safer. Often, the risk
18 management, risk mitigation you'll see through our REDs
19 has to do with residential uses. It's rarely that a RED
20 has residential uses that we haven't gotten some
21 reduction in risk through our decisions. We have an
22 actual voluntary cancellation for OPs of several

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1 pesticides entirely in home environments. Two key ones
2 that I know you're all aware of are chlorpyrifos and
3 diazinon, but there are several others.

4 In terms of worker risk, again, we believe we've
5 significantly improved the risk to workers through this
6 process and, in particular, for OPs, a number of OPs have
7 been voluntarily canceled or phased out in part due to
8 worker risks, and for many of the others, or actually
9 most, if not all of the others, there have been reduced
10 application rates and longer reentry intervals, increased
11 personal protective equipment and engineering controls
12 and so forth.

13 In terms of ecological risks, again, we think
14 we've accomplished quite a bit there. We've put into
15 place in many cases buffer zones to protect water bodies
16 and wildlife habitat. We've put in spray drift reduction
17 measures, including setbacks, outer row spray
18 limitations, and as well as, in some cases, actual
19 restrictions on the timing of applications so they don't
20 coincide with breeding seasons and things like that.

21 As a result of all this, OP use is declining
22 pretty significantly. In the 10-year period between 1994

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1 and 2004, OP use on kids' foods decreased nearly 60
2 percent, going from 28 to 12 million pounds per year, and
3 the use of alternatives to these chemicals has been going
4 up. OP alternative pesticide usage increased, you can
5 see there, 2,900 percent over a five-year period, and
6 reduced risk pesticide usage increased 1,700 percent over
7 a 10-year period. That's in part -- in fact, in large
8 part due to the registration program and the emphasis
9 that's been put on registering reduced risk and OP
10 alternative chemicals.

11 In terms of actual outcomes, we've seen that,
12 too. A lot of what we've talked about are outputs. We
13 actually have seen, particularly in the acute risk
14 situation, outcomes that are -- we think are very
15 meaningful. In the area of incidence, overall -- I'm
16 talking about all pesticide exposures in this first
17 bullet here, unintentional pesticide exposures have
18 declined 26 percent and pesticide poisonings declined 37
19 percent, whereas with OPs, it's even more significant.
20 Those numbers are 72 percent and poisonings by 70
21 percent, the declines we're seeing.

22 What's next for Old Chemicals? Well, first, we

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1 have to obviously complete that last 1 percent of
2 tolerance reassessment. We're on track to do that this
3 year. We need to complete the remaining REDs, again
4 there are seven food uses REDs to complete and 47 non-
5 food use REDs to complete. We need to implement our
6 decisions, and I'll talk about that a little more in a
7 minute, but it's very important to get those decisions
8 implemented and to the streets and to the users. We
9 intend to close out the remaining special reviews that
10 are still open and start up our special registration
11 review program.

12 Okay, here are the food use REDs left to
13 complete. I mentioned some of them already. The first
14 five are N-methyl carbamates. You can see that we
15 actually have interim REDs completed for four of those.
16 It's just Aldicarb we haven't actually completed the IRED
17 for yet. You will see Aldicarb come out next week for
18 public comment of risk assessment. We can be looking for
19 that.

20 Ethylene oxide, we actually reassessed all of
21 the tolerances for that chemical, but our Scientific
22 Advisory Board through the Office of Research and

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1 Development is going to be looking at the cancer
2 situation for that chemical and there are some risks for
3 workers. It also recognizes it's a very high-benefit
4 chemical, it's a hospital disinfectant. So, we wanted to
5 make sure we had the science right on that one and that's
6 why we delayed the worker assessment for ethylene oxide.

7 And then, finally, methyl bromide, we actually,
8 as most of you know, completed the tolerance
9 reassessments for that chemical and the RED for the
10 commodity uses this summer, but we have maintained the
11 fumigant uses, along with the other soil fumigants that
12 we're going to be reassessing this year. That includes
13 those soil fumigants.

14 I'm not going to embarrass myself by reading
15 these, but these are the non-food REDs that we have on
16 our schedule to complete in FY '07 and you'll see there,
17 just to mention a couple of them, we do have the soil
18 fumigants in there. There are going to be pretty
19 challenging decisions to make for (inaudible) the metam
20 sodium and then along with the methyl bromide there. And
21 you'll see also there at the bottom, Tricolosan, that's
22 obviously a very important chemical for the antimicrobial

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1 world.

2 I'm not going to read any of these, but this is
3 -- these are -- obviously, like I said before, we have
4 these chemicals all scheduled out. It's all on the web.
5 You can look there. We have people assigned to them and
6 they're working on them. Those are the last remaining
7 REDs on that slide.

8 This is something that I always try to talk
9 about here and I can't under-discuss how important we
10 think it is, is to get these decisions to the street and
11 implemented. I'll just give you some highlights here.
12 Obviously, very soon, we'll be making decisions -- final
13 decisions on azinphos methyl and phosmet, what the state
14 of those chemicals will be.

15 This past year, we determined that many, if not
16 all, uses of carbofuran, organic arsenical herbicides and
17 PCNB were ineligible for reregistration, but we put those
18 decisions out for public comment and we have, actually, I
19 believe for all three of those, extended the comment
20 period. So, once those comment periods close and we
21 reevaluate the situation based on the comments, we will
22 determine the appropriate path forward for those

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1 chemicals.

2 The rodenticides, as you know, we're looking at
3 a large group of rodenticides as a group. We're going to
4 come out with a proposed decision on how those chemicals
5 should be regulated both for human and ecological risks
6 this fall, probably in the next month or so.

7 We have petitions in to do product revocations
8 for carbaryl and DDVP from public interest groups. Both
9 have been out for public comment and, again, once those
10 comment periods close, we'll evaluate the comments and
11 respond to those petitions, the people that submitted
12 them.

13 For many, if not all, of the decisions, for
14 probably the majority of them, we did put the decisions
15 from '06 out for public comment. A lot of those are
16 still out or we haven't responded to the comments yet.
17 We have that on our plate to complete. And any necessary
18 addenda to the REDs that would be required as a result of
19 looking at those comments.

20 We need to get our data call-ins issued, both
21 the generic and product specific. We're working on that.
22 I think we're about to get them over to OMB. Then we

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1 need to review the acute tox and product chemistry data,
2 do the label reviews and product reregistration. We also
3 need to implement all of our tolerance decisions to
4 proposed and final rules in the Federal Register.
5 There's a lot of implementation work to be done.

6 This slide shows some -- it's not every one, but
7 I think it's essentially every one -- special review
8 close-outs that we intend to do as we close out the
9 decisions on these chemicals. This will be done publicly
10 through FR notices where we solicit comment and then file
11 final notices. So, I think each of these you'll be
12 seeing the notices as we close out the decisions and then
13 we intend to take steps to close out the special reviews
14 as well.

15 And then next steps, there's actually going to
16 be -- I just saw in the agenda there's a one-hour session
17 on registration review tomorrow where we'll be seeking
18 your input on where we are with that and in a more
19 detailed way, but just to mention here, it is the next
20 step for us. The final rule was effective on October
21 10th. We have actually very recently posted our four-
22 year schedule for docket openings on the Internet. You

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1 can see that there. And we intend to open our first
2 docket, possibly one or two this quarter, certainly if
3 not several next quarter.

4 In that docket, what we're going to be putting
5 in, in a nutshell, is what our view is of the situation
6 for the chemical; in other words, what we think the work
7 plan or path forward would be on registration review for
8 the chemical, based in the documents that will be placed
9 into the docket. Then we'll seek public comment on that,
10 so you'll have an opportunity to show us additional data,
11 dispute our -- or agree with our conclusions about what
12 the appropriate path forward is, and then at the close of
13 that -- we'll probably have 90 days public comment
14 periods on these since we're starting up this process.
15 And then probably a couple of months after the comment
16 period closes, we would set up our final work plan and
17 post that for you to see.

18 Again, just to point out here, there's a number
19 of comment periods that are actually required by the
20 regulation. One is when we have the docket opening,
21 which that's mostly what we'll be doing this year, and
22 then we'll be posting any significant risk assessments

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1 for public comment, and in this case, a little bit
2 different than the requirements of reregistration, we
3 will be proposing all decisions for public comment.

4 Again, this year, we're going to be opening
5 dockets for 25 cases. It's 15 conventional chemicals,
6 four antimicrobials and six biopesticides. I'll have --
7 those numbers are in your packet in the presentation for
8 tomorrow, the names of those chemicals. But they're also
9 posted on the web page. And I think I just talked
10 through what the next steps were once we open those
11 dockets and get the comments.

12 And then, finally, we always show this slide,
13 but I did want to point out this time that I think for
14 all of these websites, there's quite a bit of new
15 information that's been very recently posted or updated
16 for these. So, you may want to check out our websites
17 and see what's new. Thank you.

18 MR. JONES: (Inaudible).

19 UNIDENTIFIED MALE: I guess I just want to say I
20 know you haven't finished every last little action quite
21 yet, and everybody's always not happy with every action,
22 but I want to say hats off to the agency for 10 years of

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1 amazing work on putting together a very complicated
2 process, taking an enormous pile of information, of
3 input, of organizing advisory committees to help guide,
4 bringing in stakeholders, and then doing all that work on
5 time and -- can we still say under budget?

6 MR. JONES: Oh, yeah.

7 UNIDENTIFIED MALE: Excellent. On time and
8 under budget. So hats off.

9 MS. EDWARDS: Thank you.

10 MR. JONES: Thank you. Jennifer.

11 MS. SASS: On Slide 19, I just wanted to know
12 what your data source was. This was the slide where you
13 said that EPA's improving human health protection and you
14 said there's been a percentage of decline in
15 unintentional pesticide exposures and poisonings. What
16 did you use as your data source or sources?

17 MS. EDWARDS: The source -- this is data from
18 the American Association of Poison Control Centers and
19 their (inaudible) exposure surveillance system. I
20 actually have a paper here that was prepared by Jerry
21 Bondell (phonetic) on this, but I don't have -- I don't
22 know if it was public.

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1 MS. SASS: I think that Jerry also used the 682,
2 am I right? Is that incorporated into here?

3 MS. EDWARDS: I'm sorry, I don't actually know,
4 but I do have the paper, I could probably just give it to
5 you.

6 MS. SASS: The paper would be great, yeah. I
7 mean, I'm glad that you're using the Poison Control
8 Centers. I know that we had recommended that a long time
9 ago and I'm glad to see -- I just want to know how many
10 sources of data you're incorporating and then, of course,
11 there's the quality control check on all the data
12 sources.

13 MS. EDWARDS: True.

14 MS. SASS: So, I would just be curious to see
15 that. On page 21, this is just a real quick one, from
16 the ethylene oxide, I know that you're aware that the
17 National Academies is beginning a review of this. Are
18 you planning on waiting until that review is out or not?
19 And I don't know if it will affect you directly, but they
20 are looking at the cancer exposure.

21 MS. EDWARDS: I don't know what the -- is that
22 separate from the SAB review?

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1 MS. SASS: I'm sorry, it is the SAB. Sorry.

2 MS. EDWARDS: Yes, we're waiting for the SAB.

3 MS. SASS: Okay, sorry. Thanks. (Inaudible) I
4 sometimes forget what building I'm in.

5 Okay, so you'll be waiting for that and just --

6 MS. EDWARDS: Yes.

7 MS. SASS: Okay, my last question is the most
8 complicated. It's on Slide 24. It has to do with the
9 data call-in process, the DCI process. What system do
10 you use for tracking what data call-ins you've issued and
11 whether or not you receive the data on those call-ins and
12 whether that data fulfills the requirement for that call-
13 in? And then how do you know that you've incorporated
14 the results of that data into your assessment? Do you
15 have a tracking system that someone like me can look at
16 and say, okay, this RED is finalized and there was data
17 call-in issues for this RED, how has that data been
18 received?

19 MS. EDWARDS: We have a number of tracking
20 systems and we're working toward having one through --
21 open that you would be able to do exactly what you're
22 talking about. But for the most part now, we have a

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1 number of separate free-standing tracking systems between
2 RD and SRD and actually, to be -- it's interesting that
3 you brought this up because in our staff meeting today,
4 we were discussing a tracking system for DCI.

5 But I would say what you could do is if you're
6 interested in any specific chemical, the status of where
7 we are with that, you could simply ask us and we could
8 provide you with that.

9 MS. SASS: So, each -- it would be chemical
10 manager by chemical manager kind of (inaudible) right
11 now.

12 MS. EDWARDS: It's not that bad, but it's --

13 MS. SASS: Well, I'm not saying that's bad. I'm
14 just wondering -- it was just a question, where do I go?

15 MS. EDWARDS: Yeah, it's -- it's a series of
16 separate tracking systems. It's not all in one tracking
17 system right now I think is the best way to put it.

18 MS. SASS: Okay, then I do have a question on
19 the OPs. You guys issued a data call-in for development
20 of neuro-tox study data, the DNT data on all the OPs that
21 were reviewed. You didn't receive most of that by the
22 time it was issued. Now, by the time it was finalized,

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1 my understanding is you had received more of those DNT
2 data, but not timely enough to be able to review them for
3 the final cumulative assessment. Is that right or how
4 would I figure that out? Did you have all the DNT data
5 when you finalized the OP cumulative risk assessment?

6 MR. JONES: We need to get back to you on that
7 question because --

8 MS. SASS: When can I get -- who can I contact
9 to find that out?

10 MR. JONES: (Inaudible) back here. It won't
11 take us long to get the answer to that.

12 MS. SASS: Okay, thanks.

13 MR. JONES: Bob?

14 MR. ROSENBERG: Jim, I just wanted to echo what
15 Adam was saying about the tremendous accomplishments of
16 the agency in the last 10 years. On behalf of the IR-4
17 Program, and especially crop growers in the United
18 States, I'd like to thank the EPA for the wonderful
19 partnership we've had over the last 10 years. We've had
20 -- I don't think by any coincidence, we've had our most
21 productive 10 years of our -- decade of our entire
22 program. We've got 5,600 clearances in partnership with

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1 EPA on specialty crops and I think the doom and gloom of
2 10 years ago that products would be taken away from our
3 specialty crop growers and not available has largely been
4 dispelled thanks to the efforts of the agency and the IR-
5 4 Program in registering predominantly reduced risk
6 chemicals and safer chemicals for our growers to use.

7 And after spending a week, as I did last week in
8 Germany, and hearing the hand wringing of what's going on
9 in the European Union, I think the EPA can be proud that
10 we have not only protected the environment, but given our
11 growers a safer set of crop protection tools to use. So,
12 thank you.

13 MR. JONES: Thank you, Bob. Caroline?

14 CAROLINE: This is just a clarification
15 question. There were a couple references in the
16 presentation to kids' food and I was curious exactly how
17 that's defined.

18 MS. EDWARDS: It has to do with exposure from
19 dietary surveys, what are the ones that they eat the most
20 of. So, I mean, some of them are -- well, I can tell you
21 what they are, apples, grapes, oranges, peaches, pears,
22 potatoes, snap beans, spinach, strawberries, tomatoes and

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1 wheat. That's based on the food survey data.

2 MR. JONES: Ray and then Michael Fry.

3 MR. McALLISTER: A couple of questions. I
4 believe that the inert ingredient formed a certain small
5 portion of tolerance reassessments, the work handled
6 necessarily by your division. I'm aware that there's a
7 block of the inert reassessments which are then completed
8 with a decision document that are not yet available. Do
9 we know when those will be made available?

10 MR. JONES: We'll have to get back to you, Ray.

11 MR. McALLISTER: The other question deals with
12 special review. You said you're closing out all special
13 reviews. Does special review now just go away?

14 MS. EDWARDS: No, we still have regulations, so
15 we could, if we chose to, use them. But what we, I
16 think, have found over the years is that it -- in order
17 to get the mitigation we want quickly, it's better to
18 work with registrants to get voluntary agreements, and if
19 not, probably just pursue notices (inaudible) cancel
20 because for the special review, as many of you know,
21 these have taken years and we've kind of determined
22 during reregistration that it made more sense to just

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1 work these issues through reregistration. So -- but the
2 regulations are still there if we -- if there was a
3 situation that we felt that that was an appropriate path
4 forward.

5 MR. JONES: Michael?

6 DR. FRY: Yes, just a clarification question
7 again. On tolerance reassessments, good tolerances are
8 established by the FDA, I believe. Clarify that for me
9 (inaudible).

10 MR. JONES: (Inaudible) we establish the food
11 tolerances.

12 DR. FRY: I beg your pardon?

13 MR. JONES: EPA -- OPP establishes food --
14 pesticide food tolerances; FDA enforces them, not
15 exclusively, but we establish them.

16 UNIDENTIFIED MALE: (Inaudible).

17 UNIDENTIFIED FEMALE: Turn on your mic.

18 MR. JONES: Okay. Thanks, Debbie.

19 I understand Betsy Behl is going to give the
20 next update, transparency around issue of impaired water
21 bodies.

22 UNIDENTIFIED MALE: (Inaudible).

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1 MR. JONES: Kevin, you're going to do it?

2 MR. COSTELLO: Yes.

3 MR. JONES: Kevin Costello who is filling in for
4 Kennan Garvey.

5 MR. COSTELLO: Kennan can't make it today. I'm
6 Kevin Costello. I'm with the Special Review and
7 Reregistration Division. And with that, I'll give you an
8 update on our pilot exploring how we might be able to
9 obtain and use impaired water body data for registration
10 review.

11 Now, Debbie described before with the essential
12 completion of the tolerance assessment under FQPA and the
13 end of the reregistration program in 2008, registration
14 review will be the vehicle by which we will continue to
15 assess pesticide registration to keep them current with
16 the state of the science. And registration review is
17 actually starting right now and will be a continuous
18 program by which we look at each chemical every 15 years.

19 Now, one of the guiding principles of
20 registration review is transparency and openness in the
21 process, and we really intend for public participation to
22 be an important part of the registration review program.

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1 So, as such, stakeholders and the public will have
2 opportunities for input and for consultation throughout
3 the whole process starting, as Debbie said, with the
4 opening of the dockets.

5 Now, one kind of the information that we're
6 hoping to get is great information about water monitoring
7 from the states. At the end of reregistration, the
8 states indicated to us that they had been aware of water
9 monitoring data marginally, but not completely, from
10 their 3B impairment listings, that we hadn't included in
11 our risk assessments. And the states and the regional
12 offices have indicated their interest in making sure that
13 they can make available this data so that during
14 registration review, we will include it in our risk
15 assessments.

16 In February, Benita Best-Wong of the Office of
17 Water and Debbie Edwards of OPP agreed with this position
18 and established a goal in a memo to develop an SOP to
19 establish a process by which we could obtain this data so
20 we could use it in registration review, and also set up a
21 pilot between OPP and the regions and some states.

22 Go ahead. So, in response to the memo, OPP, the

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1 Office of Water, four of our regions, Regions 3, 5, 10
2 and 9, and several states tested a process for gathering
3 state water quality data. Now, in this pilot, we
4 determined data location, not only from which state all
5 of the data came from, but which databases, where we
6 might find this data on the internet or such, and how
7 accessible it was to us.

8 We gathered targeted water quality data for a
9 particular pesticide, which I'll describe, and this data
10 was submitted in the summer and then evaluated by the
11 Office of Pesticide Programs.

12 We determined the extent to which the data, as
13 presented, could be used in our risk assessment, and then
14 based on our experiences, revised the draft SOP to
15 identify the roles of the agency, the states and tribes
16 in gathering this data for registration review.

17 So, the pilot then has established -- helped us
18 to establish a process to routinely consider this water
19 quality data for our exposure characterizations for
20 ecological risk assessment and registration review.

21 Now, in order to be able to do the pilot in a
22 short amount of time, since we're looking to start

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1 registration review, as Debbie said, this year, we
2 concentrated on two chemicals to start, malathion and
3 chlorpyrifos. These pesticides were chosen for a couple
4 of reasons, mainly because there were multiple impaired
5 water body listings in regions and states, 35 of them for
6 chlorpyrifos and a couple of them for malathion, as well
7 as additional data for water bodies in Region 5.

8 It's very important to note that, again, this
9 pilot was meant to give us an opportunity to see how we
10 can gather this data and then figure out how we might be
11 able to use this data. It was not meant for us to take a
12 look at the data and decide whether we agreed that they
13 were a good basis for impairment listings under the Clean
14 Water Act.

15 So, the regions that I mentioned worked with the
16 states this summer and sent the data that they had or
17 links on the internet to us where we could obtain the
18 data for chlorpyrifos and malathion.

19 Since we're trying to do it in a short time
20 frame, we got what they were able to give us in that
21 short amount of time. It's possible that there's more.
22 But then once we had it, OPP checked the data, provided

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1 feedback and -- both on our ability to get the data,
2 understand the data, but also our ability to use it in
3 risk assessments.

4 And now Betsy will give a little more details on
5 how we took a look at this data.

6 MS. BEHL: Hi. The data came in to both Office
7 of Water and to the Office of Pesticide Programs and
8 after winding its way through the agency, landed in the
9 Environmental Fate and Effects Division, which is the
10 organization in OPP that does ecological risk assessment.
11 We assembled a team of scientists, the folks who would
12 generally look at data like this, to take a look at the
13 websites and the other data sources and sort of screen it
14 for information.

15 The list of checks that you see on this slide is
16 sort of detailed. We attempted to answer questions like
17 can we reference these data; when we look at the data
18 provided, can we identify what the results are? I'll get
19 into that in a little bit. Is there enough information
20 associated with the data to describe the monitoring
21 program to give us some of the context of how the data
22 were collected and how can we use the data? Can we use

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1 it qualitatively, can we use it quantitatively in risk
2 assessment?

3 We recognize that, you know, this is a pilot,
4 this was a first effort to gather this data and send it
5 into the agency, and there's a lot of monitoring being
6 done in states for a lot of different reasons, not just
7 for use and pesticide risk assessment. So, we received a
8 lot of different kinds of data sources and data links.
9 We didn't always find the kind of data that we would need
10 to use the data quantitatively in the risk assessment,
11 but a lot of good data was submitted that we could use
12 qualitatively.

13 This second bullet about 303(d) listings
14 references Kevin's earlier comments, which we've heard in
15 the end of reregistration about the availability of data
16 related to 303(d) listings. One of the things we've
17 tried to do is to see if we could relate some of this
18 monitoring data back to those listings and we weren't
19 really able to do that a lot of the time. I think it's
20 possible that when additional information about -- and
21 links to other data sources, we might have been able to
22 do that. But based on what we received, we weren't able

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1 to do that a lot of the time.

2 In some cases, only summary reports were
3 available and not the actual data. And in the end, what
4 we tried to do is go back to the standard operating
5 procedure, look at our initial data request to the states
6 and refine it a bit, and I'm sure there's going to be
7 multiple iterations of that, to try to identify what are
8 the minimum things we need. We know we need to be able
9 to provide a bibliographic citation for where the data
10 came from. So, we sort of subdivided the SOP into
11 absolutely have to have kind of data that is what you see
12 here in this list and other kinds of data that would be
13 needed to use the data in a more rigorous analytical
14 fashion.

15 One of the issues was that some -- the reports
16 that we got sort of spanned a list -- a sort of spectrum
17 of information and some folks submitted data where they
18 had gone to look specifically for detections of the
19 targeted chemicals, extracted it, sent that data in,
20 which was a wonderful time saver, but you also need
21 contextual to be able to interpret it. So, having both
22 of those things is important.

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1 The other end of that spectrum were websites
2 with locations of lots and lots of data but not
3 necessarily just on pesticides. Some included
4 radiological data, mining data, and so, actually getting
5 to the specific targeted compounds of interest was quite
6 time-consuming.

7 There's potentially a lot of useful data, as I
8 said originally, in here. You can use data in lots of
9 different ways, qualitatively and quantitatively. For
10 example, the middle portion of this slide gives some of
11 the details of several of the submissions which gave us
12 everything we would need to really use -- need in order
13 to use those data in an ecological risk assessment. In
14 other cases, a lot of follow-up was required to get
15 enough of the contextual information to be able to
16 (inaudible) data.

17 Kevin?

18 MR. COSTELLO: So, after going through the
19 pilot, there were a number of conclusions that we could
20 come to right away. First, as Betsy said, the data was
21 of varying utility for us in our risk assessments,
22 whether qualitatively or quantitatively. But a few of

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1 the data sets met most of the data elements that OPP had
2 identified and, so, perhaps could be used quantitatively.
3 But several other submissions had the potential to be
4 useful, either to a lesser extent or perhaps with
5 additional information could be more useful.

6 We found that if a state provided links, it
7 minimized the amount of time for us to find the data, but
8 sometimes it led to very lengthy searches. It wasn't
9 always a clear linear path to the information we were
10 looking for.

11 Newer data, as one might expect, would be more
12 likely to include the elements that we would need for a
13 quantitative risk assessment. But the SOP, when we -- as
14 we do iterations of it, as we work with the regions and
15 the states, should help us in getting the voluntary
16 submission of the data, and it will give advance notice
17 of the kind of data elements that would be needed for us
18 to be able to use the data in our risk assessment.

19 You know, the focus of what we will do will be
20 on the near-term cases of the registration review
21 schedule, which, as Debbie mentioned, is available on the
22 web. And we certainly, again, as one of the main goals

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1 of participation, encourage the states and the tribes to
2 submit the water quality data that they have so that we
3 can meet with the -- you know, resolve the concerns that
4 they had at the end of reregistration.

5 And very importantly, you know, while providing
6 the schedule, it's necessary that the data be submitted
7 to us in time so that we could actually consider it, have
8 the time to look at it.

9 The draft SOP, as it stands now, after going
10 through the pilot, has different roles proposed -- we
11 proposed for ourselves, for the regions and for the
12 states. You know, the goal for those that will be
13 submitting the data is that they would voluntarily submit
14 high quality data that we could use in registration
15 review. In order for us to be able to get the
16 information on time and use it, that they take a look
17 ahead to see which chemicals are due in the schedule.

18 While we were concentrating mainly on 303(d)
19 impairment listings, other water quality data is also
20 important, and from the biannual water quality reports
21 under the Clean Water Act, as well as the (303)d.

22 We ask the states to mine existing data that

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1 they've got in their own databases in order to be able to
2 provide it to us, and then submit the data links or the
3 data on specific chemicals as they come up.

4 Now, the role of OPP under the draft SOP would
5 be we would consider the data in the characterization of
6 our ecological risks when a risk assessment is needed and
7 that we will seek public comment on the risk assessments
8 and on risk management for each chemical, and develop
9 appropriate risk management and monitoring options.

10 Oh, I'm sorry, I misunderstood this one. Then,
11 again, to issue the proposed decision for comment. As
12 was said before, all the different aspects of
13 registration review, including proposed mitigation,
14 proposed decisions, will be up for public comment before
15 implementation.

16 So, in conclusion, we do believe, after going
17 through this pilot, that the findings of this exercise
18 will help us to gather water quality data we could use
19 for registration review. The draft SOP that we have
20 (inaudible) establishes the processes and provide
21 guidance to all involved on what data we need and the
22 form in which it might be provided to us.

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1 And then we will use this process as soon as
2 possible starting in this fiscal year to the extent that
3 the data is available and is submitted to us.

4 Thanks.

5 MR. JONES: Any questions or comments? John?

6 MR. SCHELL: How do you folks -- do you have a
7 plan in here to deal with some of the QAQC issues that
8 come up? The 303(d) and some of those are -- they're
9 pretty standardized. But you have down there, and you
10 mentioned it a couple of times, other water quality
11 programs, and there's all different kinds of monitoring
12 programs across the U.S. And if you're compiling this
13 especially for a quantitative risk assessment or -- is
14 EPA going to provide a QAQC gate keeping role in this or
15 are you just accepting data and that's the state's
16 responsibility?

17 MS. BEHL: I think it's the responsibility of
18 the study director to do the QAQC on their monitoring
19 data. However --

20 MR. SCHELL: The state study director or --

21 MS. BEHL: Whoever does it. I mean, I think
22 there's opportunities for states to submit data that is

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1 derived from a variety of different sources. But one of
2 the things I said is you can use data a lot of different
3 ways. You can use it qualitatively, you can use it
4 quantitatively. Monitoring data will generally tell you
5 something if you're able to cite it and understand why
6 the monitoring study was conducted in the first place.
7 And in order to be able to use it in a quantitative
8 fashion, you need to know an awful lot about the data,
9 and QAQC is one of those things.

10 So, where we've got those kind of -- that kind
11 of information, we can use data more quantitatively
12 (inaudible).

13 MR. JONES: Beth?

14 DR. CARROLL: I had a similar question to John
15 and I just -- I wonder in thinking about your answer, is
16 SOP available and does it address any of these quality
17 concerns?

18 MS. BEHL: The SOP is -- I think it's still
19 under development. I don't think it's quite available
20 yet. There was a brief discussion about that yesterday.
21 I think there are a few steps that the Office of Water
22 wants to go through before it's finalized. But it's very

1 close and I don't know the mechanism for dissemination.

2 MR. JONES: And, ultimately, we will make it
3 available.

4 DR. CARROLL: And will you take comments on it?

5 MS. BEHL: Sure. I mean, it's a fairly
6 straightforward -- it's an SOP not about how to do data,
7 how to collect it -- how to collect data. But what types
8 of information we would like to have submitted to the
9 agency.

10 And there are -- to expand on it slightly, one
11 of the things we did was we sort of separated categories
12 of information into three parts. The first is, what do
13 you need at a minimum? The second was what is really
14 good information that you really ought to give us for us
15 to be able to interpret this? And the third is what will
16 -- ideally, what would we like to see coming with a data
17 set to enable us to use it quantitatively?

18 MR. JONES: I think actually, Beth, it's in
19 everybody's packet, the SOP.

20 DR. CARROLL: Oh, the SOP?

21 MR. JONES: Is that --

22 MS. BEHL: Yeah, it's Appendix A.

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1 DR. CARROLL: Okay.

2 MS. BEHL: There's an Appendix A.

3 UNIDENTIFIED MALE: (Inaudible).

4 MS. BEHL: Right, right.

5 MR. JONES: Dennis?

6 MR. HOWARD: From the standpoint of a state lead
7 agency, I really would like to let the agency know that
8 we appreciate these efforts to try to obtain data that
9 have often been pulled together by the states, but often
10 also never really been actively sought for one reason or
11 the other in the past in the reregistration process. The
12 idea of setting up a process to obtain the data and for
13 the agencies to consider it, I think will really help the
14 registration review process if it's set up in a way that
15 is more -- is active rather than passive where the agency
16 sends out information to the states saying, this one's
17 out now and we're looking for these data. I think that
18 the Federal Register does that.

19 But if you make it more active to go to the
20 water managers in both the lead agencies for water
21 quality as well as for pesticides, that would help quite
22 a bit.

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1 And, also, I'd like to applaud you for
2 working -- OW and OPP working together. I know you've
3 been making a concerted effort to do more of that and the
4 more cross program efforts that you take, the better off,
5 I think, everybody will be for it.

6 And, finally, just a question about OW's role in
7 this particular exercise. Did they (inaudible) the data
8 that came in as well as he said? Were they part of your
9 review team or what role did they play in this?

10 MS. BEHL: We discussed the findings of the data
11 -- the data came in to OW as well. The analysis was done
12 by (inaudible) largely because it's (inaudible) pesticide
13 risk assessments which is not something they are
14 routinely involved in. But we spoke with them several
15 times in conference calls about the findings and follow-
16 up to what we were seeing.

17 MR. JONES: Thanks. Jennifer and then Julie and
18 then Ray.

19 MS. SASS: Yeah, my question is, in the Appendix
20 A where you list your three tiers of data that you'd
21 like, that's pretty good, I mean, especially the third
22 tier, your metadata. So, my question is, what data are

1 you using now? I mean, if this is the ideal data that
2 you'd like and if your pilot program sort of failed to
3 collect that data in most cases, that you weren't able to
4 collect data that you could use quantitatively, which is
5 your third tier here, what are you using now?

6 MS. BEHL: Well, we have -- we've been looking
7 at monitoring data ever since I've been working with the
8 program, and a lot of those data are collected by state
9 agencies. I think this is kind of a formalization of the
10 process that we use right now to go through and screen
11 data for various forms of utility in the risk assessment.

12 MR. JONES: But even if there is monitoring
13 data, which there often is, we are going to model
14 estimates and predict estimates using models, and if
15 there isn't any monitoring data, obviously, we're going
16 to have to model the predicted concentration.

17 MS. BEHL: Yep.

18 UNIDENTIFIED MALE: The list of the data
19 elements that we were hoping to get was based on some of
20 the data that we have seen and used in the past and some
21 of the ones that we thought were the most useful to us in
22 our risk assessments.

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1 MS. SASS: So, I'm aware that you use models,
2 and so, do you think that some of this data could be
3 useful to you maybe if you didn't get the third tier, the
4 quantitative necessary tier, could you use the data to
5 help to truth test and improve the model? Could it be
6 useful that way?

7 MS. BEHL: Yeah. I mean, I think we always try
8 to use all available data. There's a lot of data that
9 goes into the models in terms of environmental FATE data
10 and climatic information. I know you're aware of that.
11 And at the same time, we try to summarize all available
12 monitoring data and describe its pros and cons, its
13 uncertainties and we use both of those lines of evidence
14 together in risk assessment.

15 So, this -- I sort of look at this as a more
16 formal and broader request for monitoring data, casting a
17 wider net, hopefully, to gather everything that's out
18 there that we might have missed in the earlier stages. I
19 think we've seen a lot of state monitoring data. The
20 State of Florida, we've been in contact with for example
21 and used a lot of their data in risk assessments. So, I
22 think we're just expanding upon that.

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1 MR. JONES: Julie?

2 MS. SPAGNOLI: Just a question on, you know,
3 since there's data very specific to a particular area,
4 how did you or how would you get the usage data sort of
5 specific to that site? I mean, because you can't really
6 tie the particular use -- I mean, because usually risk
7 assessments are based on -- you know, a particular use.
8 I guess I -- how do you correlate those if you don't have
9 the usage data?

10 MS. BEHL: You have asked the \$64,000 question.
11 I mean, that is usually the hardest part of interpreting
12 monitoring data is trying to figure out what was actually
13 used so you can figure out if the concentrations being
14 observed are consistent with that. I know there are a
15 number of efforts to try to refine our capacity for
16 getting more site-specific usage data, but that's the
17 hard part.

18 MR. JONES: Ray? This will be the last
19 question. We're going to have to wrap it up.

20 MR. McALLISTER: If I understand correctly,
21 you're collecting this information or you're looking at
22 how to collect it for use in the registration review

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1 program, and then if something of concern shows up,
2 you'll decide whether you need more information?

3 MS. BEHL: Kevin?

4 MR. COSTELLO: Sure. Again, as Betsy said
5 before, monitoring data that we get from the states, as
6 well as any other monitoring data that are available,
7 will just represent one of the lines of evidence that
8 we'd use in the total risk assessment. It's not meant to
9 be some kind of specific trigger which is different than
10 everything else we use. We just want to make sure we're
11 using all available data, all the best data. But right
12 now, there's no specific requirement to submit this data
13 either from registrants or from states. Even in this
14 case, it's going to be a voluntary program. We're asking
15 for their help.

16 MR. JONES: There isn't an answer to the
17 question. As we go through registration review, it's set
18 up in a way that has enough transparency that
19 stakeholders will be able to see early on how we're using
20 it and be able to participate in how they think that
21 we're using it, whether it's just for assessment purposes
22 or ultimately (inaudible) risk management. And I think

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1 it will be very case specific.

2 Okay, thank you, both of you, Betsy and Kevin.
3 I appreciate it.

4 We are now going to hear from the Performance
5 Measures Work Group who I mentioned at the beginning has
6 developed a report for consideration by the full PPDC.
7 Really the question before us is whether the full PPDC
8 wants to adopt the report as advice to EPA.

9 Sherry Sterling, who is from EPA and the
10 Pesticides Program, who helped to manage that group, is
11 going to kick us off.

12 You all have a report that is dated 6/29/06 in
13 your packet. It was also sent to you, I think, about two
14 weeks ago electronically.

15 **(Brief pause in the proceedings.)**

16 MS. STERLING: All right, thank you. This is
17 not a typo. This isn't just about the strategic plan.
18 It's about strategic planning, which is the strategic
19 plan and beyond. So, it's more to give you the update
20 because at the last meeting -- and our work group has
21 asked that we continue to keep you updated on what we're
22 doing with this project.

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1 The agency's strategic plan for 2006 through
2 2010 is not final yet. It has cleared EPA's chief
3 financial officer; it has cleared OMB and it's now up on
4 the Hill for review. It won't be final until the Hill
5 completes their review of this.

6 I want to make a couple of important points for
7 the rest of this briefing relative to the strategic plan,
8 and that is that your strategic plan sets your budget
9 structure. However that -- so, now that we've changed
10 our strategic plan structure, we have to go back and
11 change our budget structure. I'm not talking changing
12 money; I'm not talking change the work that we do. I'm
13 just saying that the headings that we use and the
14 headings that will be used in the President's budget when
15 it goes up for 2008 will have the new headings that
16 reflect this new strategic plan.

17 So, let me just take a minute and tell you
18 what's in the -- in the draft strategic plan that we have
19 right now. If you recall, we have three mission areas.
20 The first one of those is protect human health and it is
21 listed as Protect Human Health from Pesticide Risk in the
22 strategic plan. If you're into numbers, it's 4.1.3. And

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1 there are three measures that we have in this strategic
2 plan relative to human health. The first one deals with
3 a reduction in the general population, and we're looking
4 at that with the NHANES data. We're looking at
5 specifically OPs and reductions there. So, that's our
6 first one.

7 The second deals with maintaining a low rate of
8 occupational exposures. And, finally, the last one deals
9 with reducing some very specific occupational exposure
10 chemicals that have the greatest acute list. And there
11 are six of those that we've identified.

12 Moving on to Protect the Environment, I would
13 say that this is the area that has changed slightly from
14 the last time that you all have seen it. Last time, we
15 had -- we did have this concept of looking at urban
16 watersheds and agricultural watersheds against
17 benchmarks. And back then, you might know this as the
18 NAWQCA or National Ambient Water Quality Criteria
19 Assessment database. It's a measure based on that
20 database.

21 When we got to the chief financial officer and
22 OMB, they actually asked us to pull apart and have one

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1 measure for urban and one measure for agricultural. It
2 just made it easier to follow.

3 The big difference here is that we have taken
4 out the specific endangered species. We were saying look
5 at endangered species. We'll be capturing that in other
6 ways and I think this is actually -- what we have in now
7 is actually more in line of looking with aquatic species
8 in general as opposed to just the endangered species and
9 the work group said, you know, you shouldn't be just
10 looking at endangered species.

11 I would say, though, that we recognized, as the
12 work group did, that, quite frankly, our next adventure
13 will be into the realm of non-aquatic measures to use.

14 And, finally, Realize the Value from Pesticide
15 Availability. As a result of the discussion from the
16 group, this is no -- this used to be called Benefits.
17 It's now Realize the Value. And I will say -- I want to
18 make a very big point that this category probably
19 wouldn't exist today without the work and the comments
20 from the work group and the PPDC. In fact, at every
21 level and every step of the way, people have challenged
22 us about this realizing the value from this pesticide

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1 availability. Not that they think that pesticides aren't
2 valuable, but they think that it's not an appropriate,
3 perhaps, measure for an agency, an Environmental
4 Protection Agency. We've convinced them that, you know,
5 safety is always there. It's not just that they're
6 available, but they're safe and available.

7 So, we were able to point to the work that you
8 all did in the work group and say, no, our stakeholders
9 think that this is an important piece. So, I just -- you
10 asked for feedback on how we use the report, this is a
11 major way. This is a major way that it was helpful to us
12 as we went through the process.

13 And here we have the avoided crop loss with the
14 Section 18 Program. That's what the first measure here
15 is, and the second one is looking at termite structural
16 damage avoided.

17 So, those are the seven measures that we have in
18 the strategic plan currently.

19 Remember I said it was real important that the
20 strategic plan sets the budget structure. Well, in '07,
21 on the right-hand side of this -- the left hand side of
22 this slide, you'll see that the budget structure for '07,

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1 what we're currently in, is the old structure,
2 registration, reregistration, field programs. Those are
3 very output kind of oriented areas or ways to look at
4 things. And as you'll see, we're moving towards, we're
5 transitioning towards FY '08 when we have a proposed
6 structure that reflects the mission areas that we've just
7 gone through putting the strategic plan.

8 So, what we're in the process of doing is
9 tracking all the activities that were for registration
10 and tracking those activities into the new structure. It
11 doesn't mean we'll have different activities, it doesn't
12 mean we'll have different money, it's the same money,
13 same activities, just tracks the different categories to
14 better reflect the outcomes, which are, obviously,
15 protect human health, protect the environment and having
16 pesticides available for use.

17 One of the things that the work group told us
18 is, remember, you can't -- don't throw out the baby with
19 the bath water. Don't throw out those output measures,
20 and we have not done that. We've just augmented those
21 output measures with our new -- with these new outcome
22 measures.

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1 And the seven that we just went through for the
2 strategic plan are kind of, in a way, the tip of the
3 iceberg. The strategic plan is like the big picture. We
4 have a number of measures that we're still looking at and
5 are very important. It doesn't mean that they're not
6 important because they weren't in the strategic plan. It
7 was just the strategic plan looks at kind of like an
8 overarching sort of measure. We will continue with other
9 measures that we're calling internal measures to
10 distinguish them.

11 Okay, examples of the output measures that we
12 have in place for FY '07, the year that we're in, number
13 of new chemicals registered. That's a measure that we've
14 had for a long time. Or the number of new uses
15 registered, again, an old standby that -- really those
16 provide the background for some of the outcomes that
17 we're asking for. And the outcome -- I have listed here
18 two examples of outcome measures that we're looking at
19 that we will be tracking and will be reporting on in FY
20 '07.

21 So, our next steps in OPP are really -- you
22 know, we really kind of focused for a while on the

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1 strategic plan, making sure that the strategic plan
2 measures were accurate and that we had verification and
3 validation processes for them and that we had all the
4 back-up documentation that we needed to make sure that
5 they were strong measures, to get them through to our
6 chief financial officer and also through OMB. So, now we
7 want to turn our sights on to the internal measures and
8 really beef those up.

9 And, of course, the second bullet there is doing
10 that budget crosswalk to the new structure for '08, that
11 will go public in February when the President's budget
12 comes out.

13 And I just wanted to follow up kind of with the
14 agreement that we reached with the work group, and that
15 is that it's kind of a work group in suspension and that
16 until -- there wasn't -- until there's a need to have
17 review of new measures or different measures, perhaps the
18 internal measures, that's what I envision, it would be
19 kind of -- the work group would kind of be asleep, if you
20 will. It would be lying low. Like the equipment here we
21 have, it goes into a sleep mode. So, that's what it
22 would be like. So, you can go, shew, no work for that

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1 one for a little while, until we get more involved in the
2 internal measures.

3 So, that's kind of the update on where we are in
4 strategic planning in a nutshell.

5 MR. JONES: Thanks, Sherry. So, the work group
6 prepared basically a report, which all of you have got,
7 and other than having questions for any of us up here
8 around what you just heard, I think the principal order
9 of business that I'd like to accomplish this afternoon
10 around this topic is whether or not the PPDC as a whole
11 wants to endorse this report to the agency as advice,
12 which is the process we need to use for any work group
13 recommendations. It's a pretty short document.
14 Hopefully, you'll all have had an opportunity to have
15 read it.

16 Personally, I thought it was actually quite well
17 done. It hit a couple of the areas that we have been
18 struggling with, from develop some better environmental
19 outcomes to you need to be using a term other than "Other
20 Benefits" and, frankly, you haven't captured the range of
21 the benefits this program offers. But it is really up to
22 this committee as to whether or not you want this to be

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1 considered advice to EPA.

2 So, I see there a number of cards up, but they
3 were put up before you knew what I was going to ask you.
4 So, let's tackle this question and then we'll go to just
5 general observations, questions you may have had on
6 Sherry's presentation.

7 Would anyone like to move to recommend it or
8 does anyone have a question around it or -- Bob, you want
9 to move --

10 UNIDENTIFIED MALE: (Inaudible).

11 MR. JONES: That this report become advice --
12 the 6/29/06 report of the Performance Measures Work Group
13 of the PPDC, whether this should be accepted as advice to
14 the agency. Bob has moved to recommend that it be taken
15 as advice. Does anybody want to second that?

16 MS. SPAGNOLI: I'll second that recommendation.

17 MR. JONES: Thank you, Julie. Is anyone opposed
18 to this becoming advice to EPA?

19 UNIDENTIFIED FEMALE: (Inaudible).

20 MR. JONES: Okay, yep, sure.

21 MS. SASS: Well, I actually did read it over
22 carefully prior to the meeting, and I don't have many

1 comments, so maybe it is really (inaudible) and maybe
2 it's things that the work group considered and could very
3 easily just say why they didn't include it or wouldn't
4 want to or something.

5 On the part of general and process observations,
6 it's page two in the written report, number two, it's
7 important to recognize the risks and benefits of
8 pesticides. There's no mention about long-term health
9 risks at all, chronic exposures and maybe the cost of
10 those. So, I wonder if the work group considered long-
11 term health risks as opposed to the poisoning incidents.

12 Then number four in that same section, the group
13 talk about regionally based impacts. I wonder if there
14 could also be a mention of the highly exposed group, like
15 worker and bystander exposures in those areas, which
16 aren't picked up by national data, and what are the costs
17 associated with those.

18 And then going on to number five after that --
19 no, actually I'm going to skip the number five comment
20 because I can live with that.

21 (Laughter).

22 MS. SASS: Number eight, under Mission Area,

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1 number eight talks about use of the NHANES. I'm glad
2 that you're using the NHANES. I'm a big supporter of
3 using the NHANES. But the NHANES isn't -- doesn't give
4 you regional or site specific information and it is
5 likely to underestimate highly exposed, vulnerable
6 subgroups like worker populations in agricultural areas
7 who are bystanders.

8 UNIDENTIFIED FEMALE: (Inaudible).

9 MS. SASS: And their children. And for some
10 reason in here it actually says it could overestimate. I
11 would like to know how it could actually overestimate
12 because it's measurements, it's real measurements. So, I
13 can't imagine how real measurement could overestimate.
14 But I can see how it could underestimate by missing
15 things. So, this seems to me to be a bias that actually
16 only goes in one direction and it should be discussed.

17 The use of the Total Diet Study, that's the last
18 sentence on the same point, eight. It is actually a less
19 direct measurement than the NHANES biomonitoring data.
20 It monitors what's on food and not what's in people's
21 bodies. Just as something to consider.

22 It seemed to me the group might be talking

1 between the two and I'm a supporter for the NHANES, but
2 with the caveat that it may miss sensitive populations.

3 Number nine, it says -- the first sentence,
4 there was concern in the group that having measures that
5 reduce the levels of pesticides without any qualification
6 of that statement could give the impression that current
7 levels are unacceptable. In many cases, they are
8 unacceptable because FIFRA has the cost benefit trade-off
9 built into it. So, as we discussed extensively yesterday
10 in our spray group, with the example of Q4D, it could
11 actually be biologically or human health or ecological
12 health unsafe, but have, you know what Anne Lindsay
13 called a FIFRA safety decision because the economic
14 benefits are weighed into that.

15 So, you cannot de facto consider a registration
16 of a pesticide to be an indication that it's safe for
17 humans.

18 Number 10 --

19 MR. JONES: It sounds to me, Jennifer, that
20 you're not prepared to endorse this as a recommendation
21 to EPA.

22 MS. SASS: Well, not as is.

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1 MR. JONES: That's my --

2 MS. SASS: If the group can discuss these and
3 can convince me, you know, that I'm out of line or they
4 could be included, then I'm willing to consider it.
5 There was things I liked about it. I liked the use of
6 human health and ecological and worker health indicators
7 rather than numbers. But I think it needs more
8 consideration of quality control of the data to really
9 understand what you're considering.

10 MR. JONES: So, are there others in the group
11 who are uncomfortable with making this a recommendation
12 to EPA? Amy, uncomfortable?

13 UNIDENTIFIED FEMALE: (Inaudible).

14 MR. JONES: Okay. So -- Bob, you're not one of
15 them if you're -- okay. I think we then need to go back
16 one more time to this -- it was a napping work group that
17 needs to be reawakened, and if I could ask that the
18 people who are not comfortable, if you can either
19 participate personally or coordinate with each other so
20 that one of you can represent that perspective. I mean,
21 you don't all have to participate and maybe you may not
22 share the same -- if you don't share the same issues,

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1 then you'll obviously have to participate personally.
2 And it may be that we can do it in a conference call
3 without having a specific meeting.

4 So, I think what we'll need to do is try one
5 more time to see if we can get consensus around the
6 recommendations before we give reconsideration.

7 UNIDENTIFIED FEMALE: (Inaudible).

8 MR. JONES: I think we start with the existing
9 work group, and I saw Jennifer Sass, Amy Liebman -- and
10 I'm sorry, I cannot read your card.

11 MR. KEIFER: Matt Keifer.

12 MR. JONES: Matt Keifer, sorry, Matt. Oh, and
13 Shelley Davis and -- that looks like the public interest
14 community. And Carol Ramsay.

15 UNIDENTIFIED FEMALE: Public health people.

16 MR. JONES: Okay, you're saved by a non-public
17 interest community representative, and Melody. Double
18 save. Okay, everybody who's already on that work group
19 will also be -- will be asked to re-engage. Phil? Phil
20 Klein? You have a comment?

21 UNIDENTIFIED FEMALE: (Inaudible).

22 MR. JONES: Well, I think that order of business

1 is taken care of. We have a pass forward.

2 UNIDENTIFIED FEMALE: Jim, could I make an
3 additional comment?

4 UNIDENTIFIED MALE: Before you pursue that,
5 you've got a motion and a second and some discussion. Is
6 there going to be a vote or not?

7 MR. JONES: No, this isn't --

8 UNIDENTIFIED MALE: Okay.

9 MR. JONES: I see that a significant sub-
10 population of the PPDC is not comfortable and that's
11 enough for me to say that we're not going to move to
12 accept it.

13 UNIDENTIFIED MALE: So, for a decision on that,
14 you're waiting for a consensus.

15 MR. JONES: We're going to defer until we've had
16 one -- at least one more session where some of these
17 issues can be vetted.

18 UNIDENTIFIED MALE: Once the report and
19 recommendation goes forward, what does EPA do with it?
20 Does it make changes to the strategic plan?

21 MR. JONES: It will be advice to EPA.

22 UNIDENTIFIED MALE: Okay.

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1 MR. JONES: That we'll take under consideration
2 as it relates to the strategic goals that we've got in
3 our strategic planning process, yes.

4 Okay, so, do people have other questions or are
5 they prepared to move on to the next order of business?
6 Sorry, Amy?

7 MS. LIEBMAN: Yeah, I just have some questions,
8 Sherry, on some of the specificity, actually, with which
9 the slides of your presentation were developed. There
10 are some very specific numbers given in there in some
11 cases, some very specific percentages and some very
12 specific benchmarks, and I'm wondering if those -- to me,
13 it indicates that these are now in the strategic plan or
14 will be in the strategic plan. Is that --

15 MS. STERLING: They are indeed in the strategic
16 plan. The things that are on slides three, four and five
17 are what's in the strategic plan right now.

18 MS. LIEBMAN: Oh, those are the ones that I have
19 the exact questions about, because it seems to me if you
20 separate out into statements, it makes it -- hmm. Well,
21 I guess I don't understand why one would set a specific
22 percentage reduction for one case, but then just a

1 reduction in another case. What I'm really suggesting is
2 the same thing that we've discussed before about giving a
3 mis-impression that you have some indication that you
4 need -- unless maybe you do. Maybe you know that you
5 need to reduce it by 50 percent and (inaudible).

6 MS. STERLING: Yes. Actually, very, very good
7 point. Because these are snapshots of what's in the
8 strategic plan, they don't give the full statement. And,
9 in fact, let's say perhaps your question might be, why in
10 the second bullet under human health you say we're going
11 to improve the overall rate, but the third bullet says
12 you're going to reduce those specific six chemicals? And
13 the reason is we chose those specific six chemicals
14 because we found in surveys that they're the most acutely
15 toxic agricultural pesticides, and that's going into a
16 little bit more detail in the strategic plan and that's
17 very well backed up.

18 So, overall, we want to maintain a low rate, but
19 in particular, we want to focus in on those that are most
20 acutely toxic that we found the most problematic. And
21 that is not -- we do go into that more in detail in the
22 strategic plan.

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1 MS. LIEBMAN: Well, I sort of assumed that with
2 the six pesticides that you identified, that you had
3 reason there and that was not --

4 MS. STERLING: Right.

5 MS. LIEBMAN: -- unbelievable to me. But things
6 like continue to avoid one and a half billion dollars in
7 crop loss, so what if you managed to avoid only \$1.4
8 billion in crop loss? Things like that. I just wouldn't
9 put quite such --

10 MS. STERLING: Unfortunately, the world is such
11 that you have to put numbers and you have to make it that
12 specific. And that's just kind of the world that we live
13 in. If we only reach, let's say, \$1 billion in crop loss
14 because that's what was appropriate and we did all the
15 Section 18s that we needed to do and everything worked
16 out, but gee whiz, we had a great year and we didn't need
17 that many, then we'd just write -- it would be up to us
18 to write that explanation in. It isn't that we're trying
19 to create crop loss; it's, in fact, that we want to
20 maintain the rate that we currently have, which we think,
21 over the short term, that's not an unreasonable thing.

22 MR. JONES: Anyone else? Phil?

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1 MR. KLEIN: I have a question. I sort of
2 (inaudible) on your slide with regard to crops and
3 termiticides and the value of pesticides and I notice you
4 do pick up on (inaudible) for the application of --

5 MS. STERLING: Yeah, can you -- I'm sorry, I
6 can't hear you. Thanks.

7 MR. KLEIN: You talked about the antimicrobial
8 pesticides. I think that needs to be broadened out to
9 insect repellants and other public health products that
10 benefit against West Nile Virus, lyme disease and other
11 diseases, and do we engage in performance measures with
12 regard to those public health pesticides as well.

13 MS. STERLING: And, in fact, that's been one of
14 the struggles. That's something that we'd like to do and
15 we just really haven't had the data to really go after
16 that and that's one of the things that we have been
17 working with various members in the work group to say,
18 hey, what other data can you bring to help us be set up,
19 because, indeed, we would agree with you that that's the
20 case.

21 MR. KLEIN: Just a point, we are working with --
22 on Capitol Hill with the American Black Caucus, with

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1 Republicans and Democrats alike with regard to education
2 with regard to West Nile Virus and lyme disease and
3 elsewhere, particularly with regard to Deet and other
4 products. So, I think it's vital that those products,
5 from a strategic planning standpoint, get included.

6 I think it's also important, if you check on the
7 website of the Center for Disease Control and look at
8 (inaudible) diseases in the United States, it's a
9 significant problem, and I think, again, as a strategic
10 plan for EPA and working with other federal agencies,
11 there should be some specific performance measures with
12 regard to those products.

13 MS. STERLING: We'll definitely have performance
14 measures related to those (inaudible) products. But I'm
15 not going to tell you that they're going to be in the
16 strategic plan. The strategic plan are kind of the seven
17 that are set. That doesn't mean that other products that
18 are not in here, the products that you mentioned and
19 others, aren't important. It's just simply that they
20 would be internal, they'd be tracked. We'd use them for
21 other important documentation like our part reviews, like
22 our performance reviews that we do in -- that we share

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1 with OMB, with the White House, et cetera.

2 MR. JONES: Shelley?

3 MS. DAVIS: I have a quick comment and a
4 question. I'm glad to see that the strategic plan
5 includes measuring worker risk, but I actually think that
6 the "low" level of worker poisoning is really an artifact
7 of a couple of things. First of all, that workers don't
8 get adequate training to recognize the symptoms that they
9 have as related to pesticides. Secondly, that their
10 health professionals aren't recognizing that the effects
11 they're seeing as pesticide-related. And, third, that
12 there is no national incident reporting system.

13 So, one of the things that's good is, I hope,
14 that we will see in the next five-year period, an
15 improvement in worker training. I hope we'll see an
16 improvement in training of clinicians. I hope that we
17 will actually see a national pesticide incident reporting
18 system. So, when those things all come online, what you
19 might have, if this is all working actually well, is you
20 might have an increase in the number of worker poisoning
21 incidents because you'll have more actual incidents
22 reported. So, I think that kind of thing needs to be

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1 taken into account.

2 My question is, if you could, what are the
3 particular pesticides that you're measuring (inaudible)?

4 MS. STERLING: Sure. They are chlorpyrifos,
5 diazinon, malathion, pyrethrin, 24D and carbofuran.

6 MR. JONES: Bob? Bob Holm and then Bob
7 Rosenberg.

8 MR. HOLM: Yeah, just a quick comment. On the
9 economic loss avoidance, it appears -- I assume that's an
10 annual number and it appears to be low. I know we use
11 EPA data for IR-4 supported Section 18s and we've
12 averaged about a billion and a half dollars a year from
13 1998 to 2005. So -- and we account for less than 50
14 percent of all the EPA Section 18s. So, that number
15 seems to be low.

16 The other comment is, I know there's a lot of
17 focus on endangered species, but a problem we see
18 emerging is invasive species. It seems to me the
19 cooperation between EPA and the USDA on Asian soybean
20 rust was a tremendous success story, although the problem
21 didn't occur as many people anticipated. I know there
22 are a lot of other invasive species that are causing

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1 hundreds of millions of dollars of loss in irrigation
2 canals and other things. So, maybe there's an
3 opportunity to look at performance measure based on
4 control of invasive species.

5 MR. JONES: Thanks. Bob Rosenberg?

6 MR. ROSENBERG: I don't want to comment on any
7 of the specifics of what people have just talked about,
8 but, you know, I think it would be worth saying that at
9 some point, maybe like tomorrow, it would be valuable to
10 have some discussion about the process of work groups.
11 And the reason I say that is I think there's been a lot
12 of good work conducted within the work groups. In fact,
13 I think some of the best things that have come out of
14 PPDC and TRAC and CARAT. But there seems to be some
15 procedural flaws. I mean, it seems like there needs to
16 be a point where there's some closure on things, and
17 maybe there's some way that we could construct an
18 internal process within PPDC or other advisory committees
19 that would sort of give us a pathway towards closure so
20 that it doesn't seem like it's always kind of on the
21 verge of being adopted but never actually gets adopted.

22 So, if that discussion could occur, I think that

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1 would be useful.

2 MR. JONES: Sure. Julie?

3 MS. SPAGNOLI: To add further to Bob's comment
4 is, you know, the work group spent a lot of time working
5 on these recommendations and I really want to stress,
6 those things were discussed and, in fact, they're
7 reflected in some of the recommendations where the group
8 encourages OPP to solicit ideas beyond this work group
9 for additional measures. I think, you know, there was a
10 lot of discussion within the work groups on many things
11 which is reflected by what they are recommending, which
12 aren't actually specifically measures, but in some cases
13 saying, we need to look to see how we can measure this
14 and look for mechanisms for measuring, especially in the
15 area of benefits. I think that's -- looking at quality
16 of life, disease reduction, things like that.

17 The problem is is how to measure it and we
18 didn't select that in the recommendation.

19 MR. JONES: Thanks. Matt Keifer?

20 MR. KEIFER: First, as an occupational medicine
21 physician, I'd like to second what Shelley said about the
22 lack of cases that get reported through the Poison

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1 Control Center. I personally -- the last two cases I saw
2 of pesticide overexposure, I didn't use the Poison
3 Control Center. I don't need it. I mean, I don't use it
4 necessarily to report and I don't use it to get
5 information. I have other sources.

6 And then, secondly, I'd like to point out that
7 Washington State has a big experiment going on called
8 cholinesterase monitoring and we're actually tracking the
9 data very carefully and it's going to be valuable
10 information potentially for EPA as well. I think we're
11 seeing some very interesting things there. And so, I'd
12 encourage this to be incorporated potentially as one of
13 the other sources or changes. I'd just encourage you to
14 take a look at that.

15 MR. JONES: Okay, thanks. Well, I'm going to
16 just address the work group issue now because it seems
17 like the right -- I mean, you know, we'll go to great
18 lengths to get good advice, and frankly, the reason we've
19 been using work groups is because these issues are way
20 too complicated to really bring around the level of
21 understanding and have the dialogue that you need to in
22 an hour, and we actually only had a half an hour for this

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1 and I think it highlights you just can't really sort of
2 get closure on anything in a half an hour.

3 And I appreciate that it is impossible for
4 everyone to participate in every work group. So, we've
5 got this balance of between providing enough opportunity
6 for individuals to participate. At the same time, them
7 having -- you all having to balance in the realities of
8 your work life, you can't be everywhere at the same time.
9 So, we will -- the way I'm going to strike that balance
10 around this is we're going to take one more shot at it
11 and convene either by phone or in person, probably have
12 to do a combination of the both, too. People who can be
13 here can be here; others, we'll make it available by
14 phone. It's going to take more than an hour, though.

15 The issues that you've all raised are all very
16 good. Some of them, as Julie mentioned, have already
17 been talked about. Others may need further discussion
18 and you can't really do it in an hour. It will probably
19 be a half a day kind of meeting, and we'll see if we can
20 get to the point where there's a consensus
21 recommendation. And by the way, a consensus
22 recommendation can say, part of us think A and the other

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1 part of us think B. That's okay. Everyone can agree
2 that their perspective is represented. That's part of
3 the recommendation. I don't mind that at all.

4 So, we'll take one more shot at this one and see
5 what we get out of it, after which we will -- if we don't
6 have a recommendation, we don't have a recommendation.
7 It's not like we're not going to keep plugging away at
8 this. We have to. We have no choice around that. So,
9 we'll take one more shot at it, and Sherry will work with
10 the co-chairs of that work group to pull together another
11 meeting and we'll make sure we've included all of the
12 individuals today who have said that they would like to
13 participate. So, absolutely.

14 All right, thank you all. Okay, another easy
15 issue, the work group on worker risk. You all are really
16 just pushing me, but I'm trying to rein in my obsession
17 with timeliness. I'm letting it go a little bit and
18 we're just going to have to be here late. That's all
19 right. As you all know, we federal bureaucrats work long
20 hours, we're not out of here at 5:00.

21 So, we are now going to move to a group that met
22 this morning. The group on worker risk, and Kevin Keaney

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1 from the Field and External Affairs Division is going to
2 kick this off. Thanks, Kevin.

3 MR. KEANEY: What I'm going to present is a bit
4 of background for those of you that weren't involved in
5 some of the earlier presentations here at PPDC and then
6 update them on what the work group has done. There's
7 fairly extensive stakeholder involvement and extensive
8 engagement following up on a couple of years of worker --
9 pesticide worker safety program national assessments
10 resulting on a National Assessment Report that's on our
11 website and it provides a framework for approaching the
12 two regulations that are sort of the umbrella of
13 protection for the band of labor that works with and
14 around pesticides. So, it's the agricultural worker
15 protection regulation and the regulation setting
16 standards -- setting national standards for certifying
17 pesticide applicators of restricted use pesticides.

18 In the PPDC meeting of February of 2006, we
19 presented the outline and the strategy that we were to
20 take to enhance the regulations that I just spoke of. We
21 presented the range of options and areas that we were
22 considering necessary for change, and as a result of

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1 that, there was the need expressed for a PPDC work group
2 to work with us. So, the work group was established.

3 We established the role of the work group,
4 charged the work group with engaging with us on specific
5 issues and giving us information and guidance on where we
6 were going with the regulatory changes, and set a
7 schedule to engage the work group at critical junctures
8 in our regulatory timeline. By default, critical
9 junctures came to be whenever the PPDC meets, which isn't
10 quite a critical juncture in regulatory development, but
11 we're working with that.

12 So, we established the work group, the work
13 group charge, request for feedback and then provided the
14 issues that we were considering as needing review or
15 change.

16 At our second meeting, after the work group had
17 dealt with the -- had the issues to work with and worked
18 with us, we thought that some issues were much more
19 significant than others, so we attempted a ranking
20 session to determine the level of discussion that was
21 necessary, that the work group felt to be necessary.

22 Generally, there was a request for more detail.

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1 So, we established discussion papers that sort of
2 expanded on a particular bulletized presentation we had
3 made for the areas for regulatory change. And we
4 established 24 discussion areas, as it were. They
5 collapsed into 23 issue papers or discussion papers and
6 we set up conference calls to focus on these points.

7 And in the preparation of those conference
8 calls, we did ask for -- requesting for comments,
9 supporting documents, any information that the
10 participants in the work group could provide. And we
11 came back and had a report back to the general PPDC at
12 the June session presented by a number of the
13 participants in the work group.

14 From August to November, we, as I say, engaged
15 on these 23 issue papers or discussion papers. We had
16 conference calls, ten of them, two hours apiece to
17 clarify questions, encourage discussion and get comments
18 back in. We asked that written comments be submitted
19 within two weeks of the conclusion of the discussion of
20 the particular issues.

21 The group that was initially -- you indicated
22 that there were about 20 people that were interested in

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1 participating in the group. We thought that was, you
2 know, approaching the boundary of manageability. Well,
3 now we have 70 people wanting to participate in the
4 group. Not all of them come onto each conference call,
5 but 70 folks are on our listserv and receiving our
6 material, and depending on the issue, a large number or a
7 small number participates in the conference call. And
8 they do represent the full range that PPDC represents.
9 You've got advocacy groups, industry, agricultural
10 groups, state regulators, state safety educators and the
11 antimicrobial network which constitutes a special concern
12 for us, as I'll mention.

13 The antimicrobial participants have been
14 separated off into a separate group because they are not
15 our typical -- they don't fit into the typical model we
16 have for ag (inaudible) structural, lawn and garden and
17 so forth. So, we are going to deal with them
18 specifically with calls to discuss their issues,
19 specifically the issue of scope, if we're going to change
20 the scope in the applicator regulation, it's very
21 important to them the details and when we are describing
22 uses of pesticides, applicators of pesticides.

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1 The meeting we had this morning focused on
2 comments that we have received in response to the
3 discussion papers and the conference calls. We tried to
4 compile our comments into a summary document that can be
5 available to you. We're going to place the comments that
6 have been submitted by the work group participants and
7 the other comments that we've gotten from state
8 regulatory and state education -- safety education
9 training sessions, we'll put those comments in the
10 docket. There are a few papers, a few issues that were
11 raised early on that were apart from the 24 set that we
12 had, primarily from advocacy groups, and they are going
13 to frame out discussion papers for us to circulate to the
14 group and have conference calls on them as well.

15 Our next step, we'll revise the discussion
16 papers, the issues papers for the May PPDC, you know,
17 using what we've learned through this process, and ask
18 the work group participants for additional feedback on
19 those particular set of papers. We'll have the PPDC work
20 group critically involved with us in continuing
21 discussion at critical junctures.

22 We will deal, as I said, with the antimicrobial

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1 network in a separate way, working -- developing a
2 specific focus paper for that network of work group folks
3 to address their issues, and we'll fairly quickly hold
4 conference calls with them on those issues.

5 As I said, we had fairly extensive public
6 involvement through the stakeholder participation and
7 assessment exercises for a couple of years. We've had
8 this work group, which is very valuable in that
9 contribution and engaged with us. Early on, we gave our
10 schedule, our regulatory schedule which seemed to be in
11 conflict with what we were saying was needed and valuable
12 and the extensive stakeholder involvement. So, we had
13 requested internally for a revision of our regulatory
14 schedule, and Jim let us know that that was approved by
15 the Deputy Administrator.

16 So, our new regulatory schedule is -- from now
17 until the end of December, we'll have continue issue
18 discussion that I mentioned and try to bring that to
19 closure so that we can consider the inputs we've had,
20 gathered further data, refine the issue papers,
21 distribute the material to the work group and then bring
22 them to the PPDC May meeting, having conference calls

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1 leading up to that and have presentations at the May
2 meeting indicating the work group feedback and where we
3 are with these issue papers.

4 From June '07 to June '08, we'll be in the
5 business of writing preamble language and rule language,
6 internal agency review. There is multiple analyses that
7 are necessary. Economic impact statements have to be
8 developed, small entity impact statements have to be
9 developed, small business impacts and so forth. We'll be
10 in the business of options selection, on the tail end of
11 that. We are required to have OMB review, Department of
12 Agriculture review, and then reach the point of the
13 Administrator signature for publication of a proposal for
14 public comment, which we now are dating as December 31,
15 2008.

16 MR. JONES: Just for one second, if I could
17 interrupt. What you're seeing up there represents quite
18 a remarkable degree of pre-proposal participation, that
19 is, involving basically this committee here and others
20 through the work group, and I think it's just worth
21 noting the degree to which we are trying to go into
22 proposal with as much participation by stakeholders

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1 around these two rules, short of doing a negotiated rule-
2 making, which is not what we're going to do in this
3 context.

4 It's pretty heavy lifting by everybody. Unlike
5 the registration review rule, which is the model we're
6 using, but it was a procedural rule, so I think it was a
7 little easier for people to get their head around the
8 issues and for some kinds of consensus to form. And
9 we're not necessarily expecting consensus around the many
10 issues that are being identified here. What we want to
11 do is make sure when we go into the proposal decision-
12 making part, we have our eyes totally wide open, we
13 completely understand -- not completely, but we largely
14 understand what it is that we're going to be putting
15 forward and what the consequences of them are and what
16 we'll achieve by doing it.

17 But this is proving to be pretty costly, I
18 think, for everybody involved. It's been costly for the
19 agency, as you saw ten conference calls of two hours each
20 over a three-month period, very costly for all of you and
21 the others in the work group to participate. We really
22 do hope that this is an expansion or an extension, I

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1 guess, of the model used in a registration review. But
2 it is going to take a lot of time and a lot of effort by
3 a lot of you, as well as us, to see if we can pull this
4 off. I just wanted to make that point before we moved
5 on.

6 MR. KEANEY: So, that's the picture of where
7 we've been and where we intend to go. Now, I'd like to
8 have folks from the work group give their perspective,
9 and it will be Bob Rosenberg, Julie Spagnoli, Carol
10 Ramsay, Dale Dubberly (phonetic), a state regulator from
11 Florida, and Shelley Davis.

12 MR. ROSENBERG: I'd add just a couple things.
13 One, even though I think you made reference to 70 people
14 being involved; in fact, it's really been quite a bit
15 more than 70 stakeholders being involved. What you all
16 asked us as a subcommittee to do was to come prepared to
17 represent your sector, and I know that there were a lot
18 of subcommittee members -- I think the pesticide safety
19 educators, Amy, Carol -- didn't just come to these
20 meetings representing themselves, but actually had
21 conferred widely with their constituents prior to those
22 calls. I know that Wise Planet and NTMA convened

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1 numerous conference calls to come prepared to speak on
2 behalf of the non-ag applicator sector, and that, in some
3 cases, involved 50, 60 other people. So, it's a lot more
4 than 70 folks involved.

5 Well, anyway, thank you very much for giving us
6 this opportunity. Obviously, we're not yet in a position
7 to come today prepared to discuss any kind of committee
8 consensus because we're not anywhere close to that point.
9 But I think the idea, Kevin, and I'm sure you'll correct
10 me without the least reluctance, was to try to get
11 perspectives from some of the different groups within the
12 work group. So, I guess I'm here kind of speaking on
13 behalf of the -- well, the non-ag applicator sector. In
14 fact, I expressly want to make clear that I'm not
15 speaking on behalf of antimicrobial or agriculture. They
16 have their own perspectives and are very capable of
17 expressing those views.

18 So, in general, we just wanted to first offer a
19 couple of observations. You know, I think most folks
20 know that -- though I suspect sometimes things like
21 certification and training have been a little bit of an
22 afterthought and we're pleased to see it's moved to the

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1 forefront of the agency's thinking. You know, we don't
2 think there's anything that the agency can do,
3 registration, re-registration or anything else, that
4 contributes more to the safe use of pesticides than
5 ensuring that the people who use the products are
6 adequately trained, and we think this is an important
7 step forward. In fact, we think it may be a once-in-a-
8 generation opportunity to advance the quality of
9 applicator training in the U.S.

10 It's been 32 years since these regulations were
11 first passed. There was an attempt, I think in 1989, to
12 amend them and it was abandoned. You know, it's 17 years
13 later and we're trying again and we want to see this
14 thing happen.

15 A couple of things about the current state of
16 certification and training in the United States. Number
17 one, the federal law, the regulations promulgated under
18 the federal law are extremely narrow. It's basically
19 that if a person supervises the application of a
20 restricted use pesticide, they've got to be certified,
21 period. That's it. There's not anything more to it than
22 that.

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1 Well, as it were, we obviously think it ought to
2 be much broader than that, but so do most of the states.
3 In fact, every one of the 50 states has adopted
4 requirements that go far beyond the federal requirement.
5 In fact, most of them go very far beyond. To give you
6 some sense of it, of the states, 50 of them, every state
7 in the U.S., actually regulates the commercial
8 application of general use products. While FIFRA and the
9 existing 170 regulations are confined to restricted use
10 products. Fifty states are now regulating general use
11 products.

12 Secondly, even though it only applies -- the
13 federal law only applies to the persons who supervise
14 restricted use products, approximately 42 states have
15 requirements for either training, testing or some other
16 credentialing for persons who act or are operating under
17 the direct supervision of a certified applicator.

18 And then, thirdly, there are close to 15 states
19 that have adopted some kind of requirement that --
20 occupational handlers, people like school janitors, hotel
21 maids and folks who are applying (inaudible) to
22 properties other than their own themselves be trained,

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1 tested, credentialed or somehow have something more than
2 just the ability to go down to Wal-Mart and pick
3 something up and spray it in the hallway.

4 The second observation is despite the fact that
5 states have gone way beyond the federal requirement,
6 there is a dramatic variance in the quality and the
7 substance of the programs being offered by the states.
8 Some of the states do a remarkably good job. Some,
9 frankly, don't do all that good a job. It's an enormous
10 drain on the resources of the state to have to create
11 certification categories, develop category content,
12 develop fresh examinations, administer examinations,
13 establish recertification requirements, evaluate
14 coursework to ensure that the coursework complies with
15 the state's CEU requirements, and the states are pretty
16 much all over the map on that.

17 Some do a very good, some don't do a very good
18 job. Some states do a very good job in some areas, but
19 not in other areas, but there's nothing even remotely
20 like uniformity.

21 The other observation we want to make is this.
22 We think there is a certain amount of inefficiency in the

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1 current system. You know, the folks that I represent,
2 and I think a lot of you have heard this before, are pest
3 control companies. So, I don't think this is unique to
4 pest control companies. If there is a small pest control
5 company with two or three service technicians and they're
6 located in Crystal City, in all likelihood, that company
7 and its employees have to be licensed in Maryland and
8 Virginia and in D.C. and maybe they go to West Virginia
9 or Delaware. Those persons, that certified applicator
10 and those two service technicians, may have to have a
11 core exam in each one of those states. The core exam may
12 be different in each one of those states.

13 They then, because in structural pest control
14 there are as many as five, six different categories. You
15 know, some have wood destroying insects, some have
16 fumigation, some have food processing facilities, general
17 household pests, and you have to be credentialed in each
18 of the categories in which you do business, and almost
19 all service technicians have the ability to do business
20 in multiple areas. The categories aren't the same in
21 each of those states. They have to be credentialed in
22 each of those categories, in each of those states. My

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1 point is, if you're a small company just in this area
2 covering a small regional area and you have three
3 employees, it's not impossible; in fact, it's likely that
4 you may have to be subject to 25, 30, 35 different
5 credentialing standards.

6 It's inefficient for folks that I represent or
7 anybody that does business outside of a single
8 jurisdiction, but in our judgment, it's also inefficient
9 for the state. There's 50 states that are each doing all
10 of those things. It's an enormous drain on resources.
11 States are having to do all those things like develop
12 categories, develop exams, keep those exams fresh,
13 administer the exam, check CEUs.

14 We have some observations. We think that, you
15 know, to take a step back and, once again, Adam and Bob
16 were so good sucking up earlier, suck up one more time
17 and just say that the amount of (inaudible) and the
18 amount of dialogue that's occurred has been refreshing
19 and we very much appreciate it. We think it's been a
20 very positive experience.

21 We think there are three key components that
22 need to be addressed to take advantage of this once-in-a-

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1 generation opportunity. The first one is expanded scope.
2 Pure and simple, in the view of NTMA and some others,
3 though not everybody, there ought to be one -- there
4 ought to be a requirement that any person that applies
5 commercial -- commercially applies pesticides, whether
6 it's general or restricted use products, ought to be
7 credentialed in some fashion or another.

8 Secondly, we think that every person who
9 operates under the direct supervision of a certified
10 applicator should, themselves, meet some kind of
11 standard. There should be some sort of training or
12 testing requirement.

13 And then, thirdly, we think that there ought to
14 be, again, some kind of credentialing requirement for
15 occupation handlers, the folks who do it in commercial
16 properties, you know, property other than their home.
17 We're not talking about homeowners treating their own
18 houses, but we're talking about the person that comes
19 into this building. If there was an EPA employee that
20 did pest control in this building, we think that person
21 ought to have some kind of minimum training standard. A,
22 the scope ought to be expanded to go to all of those

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1 categories.

2 Secondly, we think they ought to be tough
3 standards. And one of the advantages to tough standards
4 is we think it's not necessary for the agency to ask
5 questions about things like direct supervision. You
6 know, how direct should direct supervision be? Should
7 somebody be within five miles or five minutes or so many
8 feet from the application site in order to supervise or
9 should there be a certification category, a credentialing
10 category for certain high risk scenarios? Our take is,
11 you know what, if there was a single tough standard,
12 things like whether you're five miles or five minutes
13 away from the job site don't matter. If the people on
14 the job site have been trained well, then that ought to
15 suffice.

16 And then, finally -- and this is the subject
17 that I alluded to before -- we think there needs to be
18 uniformity. EPA has said, and we agree with it, in those
19 23 papers, that they're looking for some uniformity in
20 categories, they're looking for some uniformity in
21 competency standards, they're looking for some uniformity
22 in testing. And we have some thoughts on how this all

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1 ought to take place and we think it's, again, an
2 opportunity to really move things forward.

3 We believe that, number one, there ought to be,
4 in all 50 states, uniform categories. If you're licensed
5 for general household pests and it's Category 7A in
6 Virginia, then it ought to be Category 7A in Montana and
7 Wyoming and Rhode Island, every one of the 50 states.

8 Secondly, we think the content of that
9 particular category ought to be the same state to state
10 to state.

11 Thirdly, we think the examination ought to be
12 the same state to state to state.

13 And, fourthly, we think the requirements for
14 recertification ought to be the same state to state to
15 state.

16 That kind of raises the interesting question for
17 us which is this: Is there much efficiency to having 50
18 uniform state standards when, in fact, each one of those
19 states already is over-burdened with what is a very
20 costly, time-consuming process? If there's 50 redundant
21 programs, then maybe there ought not to be 50 redundant
22 programs. Maybe there ought to be a single -- and we use

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1 the term "national clearinghouse." Maybe it's time to
2 look at the notion that at least for the purpose of
3 credentialing, that if you're going to have a single
4 uniform standard, then instead of having to go to Texas
5 and then go to California and then go to Wyoming and pass
6 a test over and over and over and maybe it's a different
7 test and maybe the contents are a little bit different,
8 instead, one place where people can go. There's one set
9 of categories. They have the test administered there.
10 The states would have access to those tests. They would
11 be able to make their own licensing decisions.

12 This is not a (inaudible). This is not saying
13 that EPA ought to be in the business of taking over or
14 re-federalizing the administration of certification and
15 training, but rather some group, whether it's a
16 consortium of states and EPA, or EPA itself, or some
17 private entity, we think there ought to be a single place
18 where the task of credentialing pesticide applicators
19 occurs.

20 And then, finally, think that it ought to be --
21 well, if there is a uniform set of standards, if you pass
22 the exam and you passed it in one place, then it ought to

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1 count in another place. So, if you've got that little
2 PCO in Virginia and you've done everything you need to do
3 in Virginia, then it ought to be good enough to get him a
4 license in West Virginia as well.

5 What we're not talking about is this: We're not
6 -- you know, by suggesting that sort of a national
7 clearinghouse or nationalizing of the certification and
8 training process or at least the credentialing process,
9 we're not talking about this, we're not talking about
10 trying to create a single uniform training system. There
11 is a wealth of excellent training programs available now,
12 the extension services, the universities, chemical
13 manufacturers, chemical distributors, state pest control
14 associations. There are hundreds, if not thousands, of
15 institutions in the U.S. that do a good job of training.
16 We don't mean to suggest that there ought to be a single
17 location where people go to train. We'd like to see the
18 existing training continue.

19 Secondly, we don't mean to suggest that EPA
20 ought to be granting certifications or licenses just
21 handling the administration of credentialing. It's still
22 the right for each state to collect a fee and grant the

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1 license for an individual applicator. We think it's
2 vastly more efficient to have a single set of tough,
3 uniform national standards. It's a more efficient
4 process, one that benefits, I think, applicators, state
5 agencies, EPA, farm workers. We think it's an
6 opportunity that won't recur again probably in my
7 lifetime, maybe not in the lifetime of most folks. Would
8 love to see us make progress towards that thing,
9 expansion of scope, tougher standards and uniformity.

10 Anyway, that's our position. Thank you. If
11 there's any questions, I guess, afterwards, I'd be glad
12 to answer them.

13 MR. JONES: We'll use the work group process for
14 the questions. If I can do two comments, Bob, for you
15 and then the follow-on presentations.

16 What you presented, Bob, was very clear advice,
17 which is very useful. I'm not speaking to whether or not
18 it will ultimately be adopted. It's very clear advice.

19 For the individuals who are following Bob in
20 this session, if I could just ask if you could try to be
21 sensitive to the time issues of getting your clear advice
22 across quickly. That will just, I think, help move us

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1 along. But I very much appreciate that.

2 Why don't we take one minute, before we go any
3 further, to introduce the Assistant Administrator and ask
4 him if he wants to make any remarks before we follow on
5 with the four additional presenters.

6 For those of you who don't know, Jim Gulliford,
7 who's sitting to Anne's right, is the Assistant
8 Administrator for the Office of Prevention, Pesticides
9 and Toxic Substances, has been for the last five months.
10 But he's not new to EPA. He was the Regional
11 Administrator for Region VII, which in EPA lingo, Region
12 VII is headquartered in Kansas City, Kansas, Nebraska,
13 Iowa, I'm skipping a state. The Regional Administrator
14 of that regional office for the first four and a half
15 years of the Bush Administration.

16 Jim had the unenviable task of becoming the head
17 of this office with about a month to go to the FQPA
18 deadline, and I have to say he performed quite admirably,
19 making a lot of very hard decisions in a very short
20 period of time.

21 Jim?

22 MR. GULLIFORD: Well, thank you, Jim. I thought

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1 for a minute he was going to say, well, now that he's
2 here and sat down, let's go take a break or something
3 like that.

4 (Laughter).

5 MR. GULLIFORD: I appreciate the opportunity to
6 finally get to meet many of you. As Jim said, I came --
7 in fact, I recall it well. I got on a plane at 7:00 in
8 the morning on July 10th. The reason I know that is
9 because July 10th is my wife's birthday, and I don't care
10 how long you've been married happily or otherwise, to
11 walk out and take a new job and leave town on your wife's
12 birthday is a mistake. And I made it, I paid for it and
13 I'm still paying for it.

14 (Laughter).

15 MR. GULLIFORD: No, actually, it's working out
16 wonderfully. I'm very pleased to have had the
17 opportunity to join OPPTS. It was an interest of mine
18 that goes way back, the subject matter that OPPTS deals
19 with and particularly, again, the pesticide issues. I
20 think many of you that know my background know that I do
21 come from an agricultural background. I worked in soil
22 and water conservation in the State of Iowa for 20 years.

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1 I worked in many a project, many a program where our
2 interests were at the time the wise use, the appropriate
3 use of ag chemistry in the field.

4 We did a lot of projects in watersheds where we
5 worked with dealers, where we worked with producers,
6 where we worked with people concerned for pesticides in
7 the environment, and had some very good projects in very
8 productive ways, and in virtually all of those ways,
9 voluntary solutions to real problems that existed.

10 That was why several years ago, in fact more
11 than four years ago, as a Regional Administrator new to
12 the job, and I was learning about how we have lead region
13 responsibilities to work with headquarters, that I came
14 to this Assistant Administrator and I didn't know very
15 well whose name was Steve Johnson and made a pitch to him
16 saying, my interests are the work that you're doing and I
17 would like for Region VII, Kansas City, based on our
18 interests, based on our priorities in the region, to be
19 your lead region. And I don't know how hard I did or
20 didn't lobby, but I was very pleased that we were
21 selected in that role. I enjoyed working with OPPTS at
22 that time and I think that was -- my deputy at the time

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1 told me, be careful how much interest you show in this or
2 you may find yourself in D.C. And I said, no, not a
3 chance. But that was part of what led to my interest in
4 this job.

5 I want to thank you for your interest in this
6 job as well. The efforts that you've made as a
7 committee, but also as interested public, to come and
8 participate in this process. It's very helpful to us.
9 You know the effort that you've made over the years where
10 -- as we've worked on issues like FQPA and those
11 responsibilities, you know the input that you've had to
12 that process, the helpful nature that has provided us,
13 helpful and productive part of the process that you have
14 provided has been very important. So, I want to thank
15 you for that.

16 I want to get to know you. I'm going to have an
17 opportunity to sit here and observe the discussion, I
18 believe it's after the break, on spray drift, what are
19 the challenges that we have to deal with. But as I look
20 at the agenda that you have here, it matches up with many
21 of the priorities that I have for the OPP Program as
22 well.

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1 I'm not sure I ever got it out in a truly formal
2 question to Jim, but one of the things that clearly ran
3 through my mind -- as he had indicated, I came here a
4 month before the FQPA deadline. As I thought about what
5 would life be after FQPA, clearly it's been very apparent
6 to me that we will always have new chemistries to review.
7 I think that's a good thing because, again, the new
8 chemistries are, in many cases, many ways, safer and
9 better chemistries. But we will do our job to make sure
10 that we review them in a complete and timely manner.

11 We also continue to have the non-food FQPA re-
12 registrations to deal with, and Jim has got a schedule
13 for those that is a very challenging schedule that we
14 will work to meet. And as you know, also, now, we're
15 transitioning to registration review and there's plenty
16 on the plate. We're also going to deal with the
17 challenges that you have before you as well, how we
18 address (inaudible) responsibilities and the
19 responsibilities of pesticides in general to the
20 Endangered Species Act and also, the Endocrine Disruptor
21 Program will have a place and we'll work on how to
22 integrate that into our pesticide work as well.

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1 There's a lot of very timely, very challenging,
2 very important issues that are before us in OPP. I
3 welcome those challenges. I think that it's appropriate
4 that we address them in a productive and a protective
5 way, and we will do that. And rather than take up any
6 more of your time, perhaps I'll give you a chance to ask
7 a couple of questions of me and then get back to your
8 meeting and, again, the issues that you folks came here
9 to address today and tomorrow.

10 Let off the hook so easy. I'll be around during
11 the break. I welcome the opportunity to meet any of you
12 individually and exchange a business card and hear your
13 interests, your concern and any questions that you might
14 have on a one-on-one basis. Given that you're a stitch
15 behind on your -- that's a Midwestern term, by the way --
16 in your schedule, I'll just turn it back to Jim and let
17 you get back to work.

18 MR. JONES: Thanks, Jim. As you have heard,
19 we're a little bit behind on our schedule, but you'll
20 have the opportunity of hearing some of the feedback
21 around the worker protection and certification training
22 rule where we've basically just started that

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1 presentation. I think, Kevin, we're on to the second
2 presenter.

3 MS. SPAGNOLI: And I'm going to speak, again, as
4 Bob did. It's not specifically just for myself or for my
5 company. This will really be representing a lot of the
6 feedback that came about from the conference calls for
7 the antimicrobial and consumer product industry and some
8 of the issues that have been raised.

9 But, first, I want to say with regard to the
10 process that I think this is a very valuable process,
11 getting the stakeholder input up front and I think we
12 identified -- some of the issues that were identified as
13 a result of this process and maybe wouldn't have come to
14 light as easily, identifying additional stakeholder
15 groups -- I know one of the meetings, we thought of a
16 group that hadn't even been engaged and that was
17 veterinarians as pesticide applicators. So, via this
18 process, I think they were able to reach out to a lot
19 more stakeholders than might have otherwise been engaged.

20 MR. JONES: By the way, that was Julie Spagnoli
21 with the Clorox Group speaking.

22 MS. SPAGNOLI: Oh, I'm sorry. I didn't put my

1 name on it because again this was from the whole
2 industry's perspective.

3 Some of the background that was brought up in
4 consideration of this is that currently general use
5 antimicrobials are not subject to specific pesticide
6 training and certification programs. Looking, I think,
7 in particular, at disinfectants and sanitizers, they are
8 generally not part of any training and certification
9 programs for pesticides.

10 One of the other issues brought up was that in
11 industrial settings, use of biocides and other
12 antimicrobial products are not distinguished from other
13 chemical use. That in manufacturing, if water treatment
14 chemicals are used, they're generally not distinguished
15 as pesticides, but they are included in any chemical
16 safety and training programs.

17 But OSHA exempts the use of consumer products
18 using the same manner that the consumer uses, and this
19 would be what we would be considering, the incidental use
20 of a consumer pesticide. It could be a teacher using a
21 disinfectant wipe in a classroom, somebody applying an
22 insect repellant before they go outdoors to do work, even

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1 though it's an occupation -- it's within their
2 occupation, it's really an incidental use.

3 Currently, FIFRA does exempt from the
4 definitions of maintenance applicators and service
5 technicians those who use antimicrobial pesticides and
6 consumer ready-to-use products. So, there is some
7 background -- when you're looking at the scope of worker
8 training programs and pesticide applicators, there is
9 some background where the scope has been limited for the
10 antimicrobials and consumer products.

11 So, some of the considerations when looking at
12 the scope that the inclusion of antimicrobials and
13 consumer ready-to-use products and incidental use of
14 consumer products would expand the scope of the
15 regulations to virtually every business operation.
16 Everybody -- almost any business is going to have a
17 bathroom where they may use a disinfectant cleaner. So,
18 again, this would greatly increase the scope.

19 We didn't really see it, there was essentially
20 no evidence that a lot of the issues with the workplace
21 use of antimicrobials are specific to the product as
22 an antimicrobial. And looking at a product like

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1 household -- like chlorine bleach, if there's incidence,
2 is it related to them using it to whiten clothes, which
3 is not a pesticidal use, versus if they're using it as a
4 disinfectant.

5 So, it's very difficult, I think, in the case of
6 antimicrobials, especially cleaners and other products,
7 to say if there's any issues specifically to it as an
8 antimicrobial.

9 Currently, we also feel that there's not a --
10 there's a lack of full engagement of the user community
11 that would be impacted. This would involve restaurants,
12 hotels, just greatly expanding the user community that
13 would be impacted.

14 Looking at just the regulatory burden and costs,
15 this would be an additional regulatory burden on, again,
16 almost every business operation, including manufacturing,
17 food processing, restaurants, hotels, motels, retailers,
18 grocery stores that may use disinfectant sprays to clean
19 off the belt where they put the food. It would also put
20 an additional burden on institutions, including schools,
21 healthcare, nursing homes or any public facility that
22 might use antimicrobial products.

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1 It's another additional burden on states to
2 insure compliance because to insure compliance would
3 increase exponentially, and I think we had some
4 discussion this morning about enforceability, also,
5 because the states would have quite a huge enforcement
6 burden, too.

7 We don't really see that there's much benefit
8 for workers or for public health to include
9 antimicrobials and consumer products in any kind of
10 training and certification programs. And, actually,
11 there's probably a possible negative public health
12 impact. If there's an increased burden by having to -- a
13 regulatory burden for using antimicrobial cleaners,
14 businesses might elect not to use antimicrobial cleaners
15 or if it's difficult to, you know, use -- there's
16 additional burden for somebody to use insect repellant,
17 they might not use those products, and obviously, there's
18 negative -- possible negative public health impacts.

19 So, it quickly became apparent -- and I think
20 Kevin has already mentioned that there's -- the issues
21 involving antimicrobials are quite distinct from
22 conventional pesticides, and that a subgroup and issues

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1 will be discussed and will be pursued. So, we're still
2 sort of awaiting the agency's determination on the scope
3 of inclusion of what, if any, antimicrobial uses will be
4 included.

5 From an industry perspective, we don't really
6 believe that there's enough stakeholder awareness and
7 engagement, especially if the scope is expanded. And the
8 benefit of expanding the scope to include antimicrobials
9 and incidental occupational use of consumer ready-to-use
10 products is really not apparent in order to justify the
11 huge regulatory and compliance assurance burdens.

12 So, the main issue that the, you know,
13 antimicrobial and consumer products groups have been
14 looking at has been the scope. We really never got past
15 Issue Paper 1A which was the expansion of the scope, and
16 looking at, you know, how occupational use of pesticides
17 is defined, we think it's going to be critical in
18 determining what the burden is going to be and the cost
19 and difficulty in implementing. Thank you.

20 MR. JONES: Thanks, Julie.

21 MS. RAMSAY: I'm going to go ahead and -- I'm
22 Carol Ramsay with Washington State University. I'm glad

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1 to be a member of the committee and be able to give some
2 perspectives from extension. And one of the associations
3 that represents the certification and education is the
4 American Association of Pesticide Safety Educators. And
5 as you'll see in one of these slides, it will comprise
6 the members of that particular association, which
7 includes the state lead agencies, cooperative extensions
8 and industry folks that are involved in certification and
9 training. Excuse me, and EVA.

10 One of the things -- Kevin went over the time
11 line of how this committee has been working through these
12 small number of issue papers. I think there's just a
13 mere 24 or 25 of them. And one of the things that I'd
14 like to applaud EPA in is the process in getting early
15 involvement by the stakeholders in this particular issue,
16 and when the issue papers were developed, they were given
17 to us and we actually had a fairly tight schedule, but it
18 was reasonable for us to have time and get it out to some
19 constituencies and get comments to come back to these
20 conference calls.

21 The second thing I'd like to applaud EPA for is
22 they actually gave us a schedule of when these conference

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1 calls were going to occur, what papers we were going to
2 be talking about, and so, when we went to a call, we were
3 more prepared than we would have been saying, what are we
4 talking about today, oh, I haven't caught up to you yet.
5 So, that was very beneficial and I would encourage you to
6 use that strategy in the future.

7 As you heard, however, the scope of these are
8 very large. They're very interrelated and so it was
9 maybe frustrating at times because we didn't have enough
10 detail on some of these issue papers, there weren't
11 enough definitions to where you really felt like you
12 could respond to, and so, really, more of it was input or
13 have you considered this, have you considered this. It
14 was really more a solicitation of considerations than it
15 was, in my opinion, a response to an issue that was
16 actually put forward.

17 Now, we do realize that the next step,
18 hopefully, before the May meeting is that we will maybe
19 have some more defined details, some more definitions to
20 where we can actually give some critical response.

21 So, it's been very open to comments, they've
22 been accepted. They've streamlined the system for

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1 submitting the comments. One of the things that we found
2 was critical, I was able to attend the prep course, which
3 is a pesticide regulatory education program course, which
4 was attended by EPA Region folk, EPA headquarters, state
5 lead agencies and cooperative extensions to talk about
6 these issue papers. We ranked them, gave them enough
7 time for them, and so, we actually got a fair amount of
8 critical, again, consideration and we discussed some of
9 these considerations this morning in our work group.

10 So, both the work group and these other
11 stakeholder dialogues have been very important. And the
12 last thing that we'd request from EPA is that with the
13 next set of issue papers, please remember, we need enough
14 time. If it's a big issue, please give us enough time so
15 that we can get it out to the group and for us to have
16 time to collate those comments so that we can give you
17 something that's not just here's everybody's comments all
18 strung together.

19 Since I have the microphone, I just want to talk
20 a little bit about the impacts of the scope of these
21 changes that could occur. And when I talk about the
22 impacts on extension, I want to bring in that this is not

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1 just extension that does training across the United
2 States. The state lead agencies are very involved,
3 especially depending on what state you're in, and
4 industry, depending on the segment of the community,
5 whether it's structural pest control, whether it's turf
6 and landscape, (inaudible) treatment, stored commodity,
7 rights of way, you know, some of those are very well-
8 represented by industry, some are not as well represented
9 by industry. And so, when I talk about extension here,
10 I'm really talking about an infrastructure for training.

11 And so, some of the impacts on that, it's really
12 funding and time commitment. And I think you all have
13 heard that statement. Most of the people that are
14 involved with these programs, the training portions of
15 these programs, whether it's writing manuals, helping
16 develop exams, doing actual training courses, free
17 certification training courses for applicators,
18 continuing education, whether it's the lecture circuit,
19 whether it's calibration clinics, whether it's workshops
20 on integrated pest management and those sorts of
21 stewardship things, whether it's train the trainers for
22 handlers or train the trainers for county extension

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1 agents to actually go out and do training and learn about
2 some of the technology. That's really a funding
3 commitment and a serious time commitment.

4 And the people that are -- the structure that's
5 behind that is not just Carol Ramsay at Washington State
6 University, though I do like to take credit for the 100
7 people that are on staff at Washington State University
8 that are very much involved with that role. We're
9 talking about myself, the pesticide safety education
10 specialist, we've got a registration specialist, we've
11 got toxicologists, lead scientists, plant (inaudible),
12 entomologists, ag engineers, soil sciences, water quality
13 (inaudible), hydrologists. They are all intimately
14 involved in this program and putting hundreds and
15 hundreds of hours into the program every year. It's not
16 just -- excuse me -- but my pretty face.

17 So, realize -- and then you've got the extension
18 agents, when we're dealing with the ag community or the
19 extension agents that are using with the urban
20 communities, because in Washington State, we have -- you
21 know, four-fifths of our population is Seattle. A lot of
22 our extension and a lot of our pesticide safety education

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1 is targeted at that corridor over there, and we've got
2 county agents that are definitely supporting that.
3 Horticultural industry, urban forestry and those efforts,
4 it's not just agriculture.

5 So, realize that when we talk about developing
6 an exam, developing training, those funding and time
7 constraints for train the trainer, it's this entire
8 infrastructure that's supporting that.

9 Again, we service lots of different areas,
10 whether it's in cooperation with industry. We co-
11 ordinate lots of association meetings, lead association
12 meetings, vegetable lead association meetings, structural
13 meetings. We've got a new structural pest control
14 facility. And so, it's a very large infrastructure
15 behind that.

16 MR. JONES: Thanks, Carol.

17 UNIDENTIFIED MALE: Dale Dubberly. You want to
18 work from down there? Dale's with Florida regulatory.

19 MR. DUBBERLY: Thanks, Kevin and Jim. And, no,
20 I'll keep you back on track because I'm not going to do a
21 PowerPoint presentation here. I think I can summarize my
22 comments fairly quickly here.

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1 Since I have supervisory capacity over the CNT
2 program, the worker safety program and the enforcement
3 program, it seems like we always kind of leave the
4 enforcement side of this out here when we work on CNT and
5 WPS, but believe me, the full circle ends at the
6 enforcement side here.

7 I see Rick Colbert down here looking at me like,
8 yeah, what's Dubberly going to say now, but anyway, I do
9 want to say a couple comments on each one of these
10 sections there. CNT is an important program for all of
11 us. Carol covered it very well. All the involvement we
12 have, it's not just state lead agencies, there's a lot of
13 other aspects to those programs.

14 The worker safety program is one of the programs
15 that's been very, very highly publicized, especially in
16 certain states. We feel that there needs to be some
17 definite changes in the worker safety regulations. We
18 felt that when we started this process, Kevin, correct me
19 if I'm wrong, back in 2000, I think, when we started some
20 of the meetings in Florida, Texas, California, concluded
21 in Washington, D.C. We've had expensive reviews of that
22 program. There's been lots of recommendations made in

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1 that program. But somewhere along the line, they have
2 become stalled and we need to kind of move that one
3 along, in my opinion.

4 I know since then we have kind of brought CNT
5 back into the picture to deal with some of the WPS issues
6 here with training and certification of applicators,
7 handlers, workers, things like that. But somewhere, I
8 think we need to break these back out and see if we can
9 address worker safety issues, and let's see if we can
10 kind of move them along, because I think it's pretty
11 important to a lot of us.

12 2008 is a pretty long time. That means we've
13 been working on worker safety changes for about eight
14 years just to get a rule promulgated for a proposed
15 change.

16 The last thing that I want to say -- or the last
17 two things I want to say is that it's very important that
18 we work on changes to the certification and training
19 program, the worker safety program, that we need to test
20 the enforceability of these, because we put a couple of
21 these through some tests here recently, and I'm not sure
22 they're withholding the actual proposals that are coming

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1 out of some of the work groups here. I think if we're
2 going to stick to what I heard here today, is have tough
3 standards and make sure that everybody's on the same
4 playing field, that we need to make sure that we have the
5 definite enforceability language when we promulgate these
6 rules.

7 It was also mentioned that the enforceability is
8 probably where a lot of the funding issues actually have
9 problematic areas. I know over the past years, we've
10 actually taken reductions in some of our enforcement
11 activities. So, if we're talking about adding on
12 responsibilities here, then we need to address the
13 funding aspects of this. There's a lot of different ways
14 to fund these programs. You know, we're faced, not only
15 in Florida, but other states, as I hear, of imposing user
16 fees. It's our general revenue dollars (inaudible) this
17 program. So, you know, you're only limited with certain
18 options of how much money you can raise from certain
19 aspects of other programs. So, we need to take those
20 into consideration when we work on these rules.

21 But I would like to see that the worker safety
22 stuff move along at a faster pace than the CNT stuff,

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1 especially from a rule-making standpoint.

2 That's my comments from the State of Florida.

3 Thank you. And I do want to commend Kevin and his staff
4 and your whole group, Anne and Jim, for really receiving
5 and taking the time for all the input, but I do think it
6 is time let's move some of these things along. Thank
7 you.

8 MR. JONES: Thanks, Dale.

9 UNIDENTIFIED MALE: Shelley Davis, Farmworker
10 Justice.

11 MS. DAVIS: Thank you, Shelley Davis, Farmworker
12 Justice. I think that -- I'm going to quickly echo a
13 couple points that were made and then focus on what I
14 think are unique to our concerns.

15 First of all, when the worker protection
16 standard was issued in 1992, it was extremely weak and I
17 think it was, in part, the product of a lot of resistance
18 from the agricultural community to the need for worker
19 safety and it weakened -- as a result, I mean, virtually
20 every provision has loopholes that weaken it in very
21 detrimental ways. And I think, as Bob said (inaudible)
22 this is kind of a once in a generation chance to make it

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1 right. So, we've got to really jump on that.

2 And I would say in figuring that out, there are
3 a lot of issues on the table, there are a lot of issues
4 that need to be addressed, but I think we should try to
5 keep our eyes on the prize and focus on the most
6 important issues and I think, as Dale said, make sure
7 that whatever gets chosen is enforceable.

8 So, with that said, I'd like to quickly look at
9 three different areas, because I want to focus on the
10 folks that pretty much no one else has talked about, the
11 agricultural workers, first of all, the post-application
12 workers, the field workers in farms, greenhouses,
13 nurseries, forests that go back in after an application;
14 then some about the handlers, the people who actually
15 mix, load and apply pesticides under (inaudible)
16 supervision, the supervised applicators; and then a
17 little bit about expansion of the rules.

18 So, let's start with the post-application
19 workers because they've gotten the least attention so
20 far. When you think about what they need, there's got to
21 be improvements in training and information, ways of
22 reducing their exposure, and then some of their procedure

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1 rights.

2 I'd like to commend Kevin for having the
3 stakeholder process, but I think we're all really anxious
4 to hear EPA's proposal to get this really concretized,
5 what is the agency really thinking about. So, let me
6 just give you some ideas about what we think is really
7 necessary here.

8 Training, right now, occurs once every five
9 years. Usually it's about a 15-minute video. In no way
10 is that adequate for anyone to be alerted to the hazards
11 they face. So, in order to bring us into the 21st
12 Century, farmworkers need annual training. It's got to
13 be comprehensive. It's got to be interactive because
14 these are generally low literacy adults, and it's got to
15 focus on something they care about, which in this case is
16 really protecting their families, especially their
17 children. So, to the extent that the training really
18 highlights the need to protect their children, and then I
19 would say even, secondarily, themselves. That's going to
20 be a way to get their attention. And it's got to focus
21 on the actual pesticides they're exposed to. We've got
22 to finally have hazard communication instead of have

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1 information about the short and long-term health effects
2 of the specific pesticides used in their workplace.
3 They've got to learn about that. They've got to know
4 that.

5 Now, somebody said, isn't that just like asking
6 us to do individual risk assessments? I think that, on
7 the contrary, that's like treating them like adults. In
8 OSHA, we have a hazard communication standard and that's
9 required that every worker in every industrial setting
10 get information about the short and long-term health
11 effects of the chemicals at their worksite. That's how
12 we treat adults. Farmworkers should be no different.

13 They need notification. Let me just link this
14 to the key barrier. The key barrier for field workers is
15 the restricted entry interval. But the problem is
16 workers don't really know when that is. So, that's got
17 to be posted at every field, so, again, they are in a
18 position to protect themselves, and so, the notification
19 piece has got to come up.

20 We need -- the restricted entry intervals have
21 to be actually barriered. Right now, there are a host of
22 exceptions to that. They're very vaguely defined.

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1 Limited contact, for example. Exactly what does that
2 mean? The fact is there should be no exception except
3 possibly for a freeze for our limited extreme weather
4 emergency. But the basic ideas of having exceptions is
5 really counterintuitive to this process.

6 Okay, I'd just like to give a little bit to the
7 handler side just to give you a feel for the kinds of
8 things we'd like to see for handlers. I think in the
9 handler community, there's a lot more opportunities for
10 engineering controls and medical monitoring, and again,
11 to bring us up in agriculture to the area of the 21st
12 Century, stuff that's very routinely available in
13 industrial settings.

14 Okay, so, first of all, medical monitoring. A
15 lot of this actually is utilizing the best of what's
16 available already in the state. Matt mentioned that they
17 have an excellent program in Washington State on
18 cholinesterase monitoring. They have a program in
19 California; recently enacted in Ohio. Okay, so this is
20 now on the radar screen, but it's time we went national.
21 We don't have to wait 30 more years for medical
22 monitoring. So, this should be a national program.

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1 Fit testing for respirators, that's also already
2 in OSHA. Why don't we have that for pesticide handlers?
3 We don't have it.

4 They need closed mixing and loading systems.
5 You know, all of these engineering type controls would
6 really reduce exposure.

7 They also need improved information. We know
8 that our hired farmworker workforce is primarily non-
9 English speaking, low literacy folk. They need to have
10 information, foreign language labels, low literacy
11 information just like the field workers in a pictorial or
12 low literacy format so that they can understand it.

13 We'd like to see some expansion of the rules.
14 Our areas of expansion are primarily in livestock farms
15 and in landscaping, two major industries that use
16 pesticides in an occupational setting where workers don't
17 have the kinds of protections they need.

18 We'd like to see some increased procedural
19 protections, for example, that workers have anti-
20 retaliation protection that's actually enforceable.

21 But it comes back down to what Dale said
22 actually, that if these regulations aren't enforceable,

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1 then they're illusory and we're just pretending to these
2 workers that we're going to protect them. So, we've got
3 to construct a series of protections that really make
4 sense, that give workers the information they need,
5 provide barriers to the extent possible to reduce their
6 exposure, allow them to get the protections in case of an
7 emergency, and then allow them to participate in the
8 regulatory process if there are violations.

9 So, all of these pieces have got to fit together
10 and they've got to be enforceable. Thank you.

11 UNIDENTIFIED MALE: Thank you, Shelley. Are we
12 going to take some questions generally?

13 MR. JONES: Actually, what I would like to do --
14 well, are there a couple of questions around?

15 Jennifer?

16 MS. SASS: Shelley, I've just been given the
17 report by Dr. Jerry Blondell, the one that was used to
18 gather the numbers for occupational exposures by the EPA
19 presentation. But the thing is when you look at it,
20 Dr. Blondell actually recommends that the numbers on
21 unintentional exposures and unintentional poisonings be
22 multiplied by a factor of eight. That's the account for

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1 four-fold, he estimates, for under-reporting and he lists
2 the reasons that you cited, and two, for lack of
3 penetrates and that is not able to get to the populations
4 that are likely to be of highest exposure. And he
5 mentions all the things that you mentioned in that.

6 And he also says that although the poisonings,
7 overall poisonings have gone down a bit, actually, if you
8 look at this, it looks pretty flat-lined since 2000. The
9 organophosphates have gone down and that's because of
10 primarily what you said, the two major, chlorpyrifos and
11 diazinon getting taken off the household market, but
12 actually the pyrethroids and pyrethrins have gone up by
13 almost the same amount, 12 percent for the poisonings.

14 So, I do think that it supports your argument
15 that there's a reason to take a closer look at this data
16 and not just cavalierly announce that we should keep --
17 that we're doing such a good job of preventing exposures
18 and poisonings. I think we do need to be a little less
19 cavalier and a little -- take a little more careful look
20 at the data that's available to the EPA.

21 MR. JONES: I don't know if you are speaking
22 about EPA in the cavaliness in the we, but we are not

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1 being cavalier, and that's why we have the work group
2 around performance measures to address issues such as
3 that.

4 MS. SASS: Right. But there does -- I mean,
5 I've sort of been bringing this up all along. But when
6 looking at data, there does always need to be a data
7 quality control aspect. So, rather than taking the
8 headlines and the conclusions, actually looking at the
9 data in there and being a little more thoughtful about
10 what's there.

11 MR. JONES: We agree with that. Bill?

12 BILL: Jim, I guess -- I just want to give a
13 little, you know, 30-second background. The scope issue,
14 I feel the scope issue was already dealt with by
15 Congress. Congress, 10 years ago, brought all the
16 different players together, sat down, brought many of the
17 users, also, that Julie talked about, and said, we need
18 to develop a scope with regard to certification and
19 training, and in developing that scope, they put the
20 definitions of service technicians, maintenance
21 applicator, exempting the antimicrobial products, all
22 antimicrobial products, and exempting out the ready-to-

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1 use consumer products.

2 I can generally explore where Shelley's going
3 with some of the direction. There are certain avenues
4 where we do think you need to have a certification and
5 training. But I think we need to go back with regard to
6 the scope of what Congress' intent was. I think we need
7 to look at that service technician and maintenance
8 applicator definition. They had brought the school
9 association, the non-ag sector, the commercial
10 applicators in, had already vetted all this among users
11 and pesticide industry and others, and they established
12 this bill. I think we need to go back to that and deal
13 with that issue.

14 They were also concerned, and I'll just raise
15 it, they were concerned that certain industries would
16 look to build a market share through the legislative
17 process and they wanted to make sure that didn't take
18 place. And, again, I think we need to be very cautious
19 as we move into now the regulatory process with regard to
20 certification and training and having a floor. I think
21 we need to go back and look at exactly what Congress
22 intended. Thank you.

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1 MR. JONES: What I'd like to suggest is -- well,
2 actually, I want to reinforce what Kevin said earlier
3 around the schedule that we're operating under, which is
4 that this winter/spring, we're going to be, as Carol
5 described, further refining those issue papers, and then
6 we're going to be taking them back to the work group so
7 we can get more informed advice around those 23-odd
8 issues that we've talked to the work group about before.

9 I think that the challenge for all of us, sort
10 of multiply the performance management question by maybe
11 100, is how to -- even though we've got over half of the
12 full committee participating in the work group, how are
13 we going to make sure the full committee has enough
14 insight and knowledge about what happens in those work
15 group meetings so that when we get the reports back,
16 we're able to, in some reasonable period of time, digest
17 it and give advice to the full committee.

18 And that's something I want to talk about with
19 all of you tomorrow so that we're -- when it comes to the
20 May time frame and all of this work will have occurred by
21 the half or two-thirds of you who are on the committee,
22 we're able to have a full committee meeting that's fully

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1 informed, because we really do have a schedule here that
2 we really need to keep.

3 The point of today's meeting was mostly -- it's
4 an accountability for us, collectively. We were going to
5 come and talk about how we were doing as it relates to
6 the work group process, and in doing so had a subset of
7 that group come and say sort of where they are, and I
8 think we got a pretty clear sense from many of the
9 participants as to what they think about where we are
10 right now.

11 But the process has a little bit to go, six
12 months or so, but it's six months of pretty intensive
13 work. I, frankly, think the hardest question for us is
14 going to be how do we take all of us, meaning how do we
15 all meaningfully participate in giving advice to the
16 agency without having all of us participate in the many,
17 many hours that is going to need to occur between now and
18 then amongst a subset of us? And, again, we'll spend
19 some time on that tomorrow.

20 Cindy and Adam, did you want to make a comment?

21 MR. SHARP: Actually, just real brief, I guess
22 from an agricultural side, we expressed I know a lot of

1 our concerns this morning, and I just wanted to say I
2 think there's been a very good job done by the agency as
3 far as teeing up in the work group, you know, with the
4 number of conference calls and work that's been done to
5 tee up the issue papers, and I think a lot of the key
6 issues have been identified very well.

7 And I wanted to come back to actually the
8 comment Bob made earlier here about maybe some focus of
9 the work group actions from now and the agency's review
10 now when he talked about three areas of scope, the
11 tougher standards and uniformity, and I thought those
12 were well done. I know he said he didn't want to speak
13 for agriculture and others, but I thought that captured,
14 actually, very well some priorities maybe of where we
15 could focus. Thank you.

16 MR. JONES: Cindy?

17 MS. BAKER: Thank you, and I'll keep mine brief,
18 too. I just would make these comments. One is that I
19 think in looking at all those issue papers, it was quite
20 surprising and quite pleasant to me to see how much
21 agreement there was around a general goal. A lot of the
22 discussion was about some of the subparts under each one

1 of those papers. But, by and large, you had a lot of
2 consensus of the goals of what those issue papers were,
3 and I don't think that's any small feat. I mean, I think
4 that was an accomplishment that shouldn't go
5 unrecognized.

6 But I guess I would also like to point out that
7 there isn't a one size fits all answer to this. There
8 aren't solutions that are going to be all one thing or
9 all another thing. I mean, you can't say there is never
10 going to be a circumstance, for example, where you would
11 find some justification and some reasonable way to allow
12 someone early entry into a field for a reason.

13 Does that mean everyone should be able to go in
14 early entry? Of course not. Does there have to be real
15 restrictions and understandings about why you do that?
16 Absolutely. Just like not every product should be
17 required to be in a closed system. There are criteria
18 that the agency uses to look at those things.

19 And so, I would say as we look at this, we have
20 to look at this from a standpoint of what are we really
21 trying to do in protecting the workers and the workers'
22 families and the people and what's reasonable in that

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1 expectation to allow the activities that need to take
2 place that have a significant benefit, not only to the
3 crops and the structures and all of that, but the people
4 engaged in those activities as well.

5 MR. JONES: Thanks. Okay, my last comment just
6 before we go to the break is that the -- although the
7 objective of this exercise is not to come to a consensus,
8 to the extent that we identify a consensus through this
9 process, EPA's very likely to attempt to occupy that
10 consensus, accept it, in other words. To the extent that
11 we don't have consensus, we will have the great value of
12 understanding all of the perspectives so that before we
13 make a decision, we're making those choices with that
14 knowledge, and of course, then we will still go through
15 the APA required process of notice and comments as well.

16 So, we're very hopeful that this process will
17 lead to the best proposal that we can come up with.
18 Hopefully, it will represent some elements of consensus
19 even if it is just on principles, which I would agree is
20 no small feat. Hopefully, it goes even beyond that. But
21 there will still be the notice and comment process that
22 will follow that as well.

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1 So, thanks to all of you people who worked all
2 morning on the -- in the work group and then particularly
3 the five presenters. We'll take a 10-minute break and be
4 back at 25 after 4:00. Thank you.

5 **(A brief recess was taken.)**

6 MR. JONES: All right, we're getting started
7 here. Okay, we are going to get started now.

8 I just want to mention before we get started
9 that Jim Gulliford, who is going to be here for most of
10 this discussion, at 5:00 is going to need to leave to go
11 to another meeting. So, if you're wondering why all of a
12 sudden halfway through our discussion he stands up and
13 has to excuse himself, you know.

14 And if anyone is interested in the public --
15 non-PPDC members, but anyone else, in making a comment,
16 you need to see Margie Fehrenbach and let her know and
17 she will -- okay, there's a sign-up by the table and
18 you'll have that opportunity.

19 So, I'm going to turn it over right now to Anne
20 Lindsay.

21 MS. LINDSAY: Okay, Jim Hanlon, who's the Office
22 Director for our Wastewater Management office in the

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1 agency's Office of Water and I are going to do a very
2 brief introduction. The primary presentation is actually
3 going to be done by Scott Shirtz (phonetic), who's
4 sitting right here to my right, and Susan Kegly
5 (phonetic). They're both members of our Spray Drift Work
6 Group and they volunteered for this duty.

7 I don't know if I'll convince them to do it
8 again because you'll see, it's actually a very good
9 report and one of the things I'm most proud of is it's
10 not just their report, but they vetted it through their
11 whole work group this morning, and while you may
12 recognize some words that are signs of compromise, either
13 because it's vague or it really seems awkward to you and
14 you can't imagine why people would string words together
15 in that way, it does -- at least as of this morning when
16 we left to go for lunch before this meeting started --
17 actually represent what the work group thought was an
18 adequate representation of where we are at this point in
19 time. That's a very carefully worded statement, just as
20 an example.

21 For those of you who are new to the group or
22 substituting for somebody else, this group was actually

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1 commissioned by the full PPDC about March -- or we
2 actually had our first meeting in March of this last
3 year, March 2006. Commissioned a little bit earlier than
4 that. It's jointly sponsored by the Office of Pesticide
5 Programs and the Office of Water. I'm not going to go
6 through the whole mission statement for the group. But
7 so you know, there were four elements that the agency
8 actually really asked this group to focus upon, the first
9 of which was to try to improve understanding of those
10 different perspectives stakeholders have with regard to
11 pesticide and spray drift.

12 Those of you who've known us for a long time
13 will know that spray drift is one of those issues that
14 generates lots of strong feeling and perspectives in
15 multiple different directions. So, the first was just to
16 understand each other.

17 Second, to the extent that the understanding was
18 achieved, to look for any common ground for working
19 together that might exist with an eye to how we might
20 actually minimize both the occurrence and the potential
21 adverse effects that can be associated with spray drift.

22 Third, in areas where common ground exists, the

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1 group was charged to look for options for work that would
2 help achieve those areas of common ground, and then,
3 finally, to explore the range and effectiveness of
4 potential responses to unacceptable levels of drift off-
5 target.

6 What you're going to get today -- I want to
7 emphasize, you can see it in the title, is a progress
8 report. The group is likely to meet one more time in
9 full session, I think most likely in very late winter,
10 very early spring, and will hope, at that time, to be
11 able to actually put together a report from the group and
12 it will either identify areas where the group pretty much
13 coalesced and found common ground or areas where perhaps
14 there are some distinctly different perspectives. But we
15 will actually, I think, have achieved sort of a rich
16 understanding of what those different perspectives are
17 and that will also be captured in the reports that the
18 group does, and that report will be destined to come then
19 to the full parent committee when it next meets, I think,
20 probably in May 2007.

21 What the process we'll use at that time for the
22 full committee to decide whether you're ready to just

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1 adopt the report, whether you want to discuss and debate
2 it and recapitulate the experience of the work group,
3 we'll have to think about that. I'll keep in mind what I
4 saw happen earlier today with the Performance Measures
5 Work Group because I've noticed, even within our own work
6 group, we think we have talked an issue into the ground
7 and then we all go away for a night and come back and
8 discover in the morning many of us can start re-debating
9 it again. So, we'll need to keep that in mind when the
10 full report comes to this group.

11 But for today, it's a progress report. So, if
12 you find something up there that you're really feeling
13 like you want to debate, you don't necessarily have to
14 debate it at this point in time because I think you'll
15 get future opportunities. But if you do have (inaudible)
16 focused thoughts, something that you just really see
17 missing from the discussion at this point, for example,
18 that you'd like the group to consider, whether
19 (inaudible) that would be helpful.

20 So, before I ramble on more, let me turn to Jim
21 Hanlon and see if he has a few remarks he'd like to make.

22 MR. HANLON: Very briefly so. As Anne said, the

1 Office of Water has the pleasure of co-chairing the
2 group, along with Anne and her team from OPP. The work
3 group has met four times now face-to-face in addition to
4 individual telephone teleconferences. The approach was
5 the agency provided background briefings in terms of
6 Clean Water Act decision-making, regulatory programs, as
7 well as the OPP programs in the first meeting, and sort
8 of, that was our contribution.

9 I could say personally that I sort of learned a
10 whole lot more than I provided by way of background to
11 the group. It's been a learning experience, I think, for
12 all of us. My sense was that through the conversations
13 yesterday, the group was making real progress. This
14 morning as they went to sort of put the words on paper,
15 sort of some gelling needed to take place and you'll see
16 the results of that this afternoon. So, without any
17 further adieu, Susan, Scott, the floor is yours.

18 MR. SHIRTZ: Okay. Well, I'm Scott Shirtz and
19 I'm representing the National Agricultural Aviation
20 Association, and Susan Kegly will also be sharing the
21 presentation.

22 Basically, what we will be doing is giving you a

1 summary of the last two meetings of this work group, or
2 another way to look at it, what we've done since the last
3 time we reported to the work group in June.

4 To start off with, we'll just basically remind
5 you of the scope statement that we are looking at.
6 Primarily, the focus is on the labeling which is, as we
7 see it, the primary opportunity to influence the behavior
8 of the application of a particular product. On the
9 practices and equipment, I mean, that's primarily
10 technology and how it affects drift. And then, also,
11 training and stewardship as far as the opportunity to
12 influence best management practices in the application of
13 the product.

14 At this time, there's an agreement not to focus
15 on the NPDES rule or misuse or volatilization since
16 they're different factors. And I believe Susan has a
17 comment to this.

18 MS. KEGLY: Hi, I'm Susan Kegly from Pesticide
19 Action Network in San Francisco. The volatilization
20 issue, I'd just like to add a little bit more on. This
21 got separated out of the process early on. Spray drift
22 being that which occurs during an application and fairly

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1 soon thereafter and volatilization -- well, spray drift
2 can be controlled through applicator action, to some
3 extent. Volatilization drift, on the other hand, is an
4 inherent property of the active ingredient in other
5 ingredients in the product.

6 So, there was an agreement for there to be some
7 discussion about how that gets incorporated into the risk
8 assessment process instead because that seems like the
9 more appropriate place to deal with controls for
10 volatilization drift.

11 MR. SHIRTZ: Okay. Next, we have the summary of
12 what we have done. The September meeting was primarily
13 concerned with the label review of permethrin, and in
14 particular, we did break out, based on application
15 equipment and then also public health uses, the meeting
16 yesterday and today focused primarily on the labeling
17 issues for 2,4-D and then also what we term complex
18 issues that basically were -- included what is harm or
19 adverse effect, also the discussion on what is desirable
20 on labels as far as whether it should be a defined
21 standard or performance standard, and how regulation and
22 labeling applies to local conditions, such as specialty

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1 crops, and then, also, how to evaluate the real world
2 impact of these pesticide labels.

3 And then the summary of what we've identified as
4 far as problems from looking at these respective labels,
5 the pyrethroid type and the 2,4-D case studies, is
6 basically we do have inconsistencies, particularly where
7 you have the same active ingredient that is labeled by
8 different registrants or at different times. At many
9 times, there are inconsistencies based upon when it was
10 re-labeled.

11 And then, also, many times there are questions
12 as far as what part of that label is actually enforceable
13 and, you know, there are, at times, confusing,
14 impractical or things that are just plain outdated on the
15 label.

16 And then the final point is, you know, a lot of
17 times people really do have to hunt throughout a lengthy
18 label to find the actual restrictions on a particular
19 type of application or a particular crop, and that does
20 reduce the probability of actually complying with all of
21 it when it is such a lengthy process at times you find
22 that.

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1 Okay, on the recommendations, basically, this
2 first part has to do with how to communicate and
3 implement the results of this, providing that, of course,
4 the PPDC follows the work group's ideas and, basically,
5 it does need to be sharper language, clearer. I think
6 this was one of the big consensus as a group that it
7 really would improve the effectiveness of the label if it
8 was sharper and clearer, more concise.

9 And then, also, to apply the same standards on
10 products, on, you know, many different products,
11 particularly when they have similar active ingredients or
12 the same active ingredients.

13 Also, this would require more steps to really
14 change this and the clear separation of enforceable and
15 advisory label statements would be a big help, and then,
16 also, the -- back to the clarification situation, the
17 separation of types of application equipment could be a
18 huge help, which I'll turn it back over to Susan.

19 MS. KEGLY: So, Scott just told you about the
20 things that we could all agree on, and there are some
21 other issues that arose that -- so, there are other
22 issues where there was some discussion, but not

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1 necessarily agreement, but just questions in general.
2 And, you know, the first thing that came up is, you know,
3 the label is actually trying to be everything for
4 everybody, which makes it very difficult for it to be
5 effective for anything, actually.

6 The objective, first and foremost, for EPA is
7 that the label is the law, and so, if -- so, it should
8 make it easy to follow that law and enforce that law.

9 It's also used for consumer information, for
10 applicator information. That's kind of the biggest
11 intent. Manufacturer statements, best management
12 practices, all of those issues are dealt with.

13 Labels are also used in training new
14 applicators, and so, there's information on there that an
15 experienced applicator may not need, but a new person
16 might. So, we need to think about, you know, how can you
17 best arrange the label so that you reach those different
18 target groups and not make it so confusing that it's
19 impossible to enforce.

20 The label is also connected to the risk
21 assessment that EPA does. When doing a risk assessment,
22 the label is -- the uses that you consider and when you

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1 come up with your overall assessment to the toxicology,
2 you go back to the label and use the label to get that
3 information back out to the user to have them use it
4 correctly so that risks are below levels of concern.

5 There are also issues of the label -- again, the
6 label can be a training device or educational, but maybe
7 a professional ag user may not need it, consumer users
8 might need more of that, but overall, the enforceability
9 has to be one of the most important criteria.

10 Another issue that came up is that the label
11 also contains statements that are aimed at the grower and
12 statements that are aimed at the applicator, and if the
13 applicator has the label in hand, but the grower does
14 not, how is that information transmitted from the
15 applicator to the grower? And this came up in the
16 context of, you know, there needs to be a vegetative
17 buffer strip of 10 feet between the field and the water
18 body, for example, and whose job is it to make that
19 communication. Well, it's the applicator's job, but it's
20 not clearly spelled out that it is and it's not uniformly
21 done because it's not spelled out. So, you know, how can
22 we facilitate that communication to make those -- get

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1 those points across?

2 The other issue that came up is -- this came up
3 in the context of the 2,4-D label. There was a whole
4 label statement on sensitive plants and there was a
5 suggestion that we also discuss sensitive sites like
6 homes and schools and businesses and water bodies and
7 wildlife for parks and things like that. So, just as
8 something that might need to be added.

9 There were a number of complex issues where we
10 knew we weren't all going to agree, but we thought it
11 very much worth a discussion. As Scott said, basically,
12 looking at what do we mean by harm from spray drift,
13 looking at design standards versus performance standards,
14 how do we accommodate local conditions, and then
15 determining, you know, how does that label actually
16 operate in the real world. We're going to go into these
17 in some detail.

18 Harm, there's a couple of ways that you might go
19 about defining harm. The FIFRA standard says
20 unreasonable adverse effects on health and the
21 environment, right? We missed the health part. The
22 specific adverse outcomes. So, no bad things happen when

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1 it's used properly.

2 No toxics in toxic amounts, and that's the Clean
3 Water Act standard. And the minimized drift standard
4 that you would get to from using best management
5 practices. And then, at kind of the other end of the
6 spectrum is any -- no drift period. So, no drift in
7 detectable amounts. So, these are the range of options.

8 And what happened was that Dave Scott with the
9 Indiana State Chemist's Office, Indiana has already moved
10 on this because Dave is frustrated with not being able to
11 enforce labels. And I wanted to read to you what they
12 put together. It's a one-liner. We didn't quite get the
13 quote right there, but a person may not apply a pesticide
14 in a manner that allows it to drift from the target site
15 in sufficient quantities to cause harm at a non-target
16 site. And their rule basically looks at harm in the
17 context of exceeding Federal or State standards, like
18 water quality standards, or tolerances, if it drifts onto
19 a crop. And, of course, if there's no tolerance, like if
20 you drift onto an organic crop, obviously, there's a
21 violation.

22 He also says that -- they haven't had much time

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1 to check it out, but there are definitely -- you know,
2 it's only been in place for this year, but certainly
3 situational issues would contribute to the estimated
4 potential harm; for example, application near a school
5 would be viewed differently than an application next to
6 just another cornfield.

7 Economic harm is an issue, and then, of course,
8 anything observable, when something dies or people get
9 sick or whatever. So, that was kind of the initial --
10 that's what they're doing. There was then a lot of
11 discussion on that, what the law did well and what things
12 might have been left out.

13 And one of the things that came up is that
14 multiple pesticide exposures -- if you have a water
15 quality standard, maybe that's fine if you're only
16 exposed to one thing. But if you're applying a tank mix
17 of, you know, two pesticides together or more, you're not
18 -- your risk assessment doesn't tell you much about the
19 interaction of those two pesticides. That might need to
20 be taken into consideration.

21 And then the fact that we don't routinely test
22 for endocrine disruption and we don't have a good method

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1 yet. Hopefully, we'll be working on that. And that
2 developmental neurotoxicity as two examples of where risk
3 assessments aren't necessarily complete.

4 There was concern that just because you detected
5 a pesticide, that that not be the standard of harm,
6 because our detection limits are getting more and more
7 refined and we're able to see smaller and smaller
8 amounts.

9 There was a comment that we should think about
10 utilizing the FIFRA standard of no unreasonable adverse
11 effects, and in terms of what you'd normally do in good
12 agricultural practice. There was even comments about the
13 costs of drift are not borne by the people who benefit.
14 And so, a typical cost benefit analysis may not be the
15 most appropriate thing there. And then there's also
16 concern about -- again, this kind of comes back to the
17 risk assessment. There's a lot of variability in
18 different humans that -- intraspecies variability and
19 sensitivity to toxics that that factor of 10 that's
20 normally used may not cover.

21 You want to jump in?

22 MR. SHIRTZ: (Inaudible).

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1 MS. KEGLY: Okay, other considerations, one
2 thing that came up is, you know, how would you write this
3 law so that if you were on the other side of the fence,
4 you'd be happy with the results? And, again, there's a
5 lot of situations where the person applying the pesticide
6 doesn't necessarily ever end up on the receiving end of
7 the potential harm.

8 There's also issues of residues that persist,
9 like maybe you might spray a schoolyard on the weekend
10 and then the kids come back and play on the swing set
11 that might have residues on it. That needs to be
12 considered.

13 And then another proposal was, well, Federal
14 standards are limited, they're not available for a lot of
15 different chemicals. So, with the risk assessments, we
16 now have a kind of toxicologically allowable
17 concentrations in the population adjusted doses, and
18 those might be some other values we might want to compare
19 with.

20 There were concerns from a trial representative
21 in Washington that some highly exposed groups have really
22 different circumstances. The example he used was a

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1 person there might eat salmon 15 or so times a week
2 because that's one of their main staple foods, and so,
3 highly exposed groups may need some special
4 consideration.

5 And then there was also a comment that problems
6 can be minimized with some notification in advance of an
7 application.

8 MR. SHIRTZ: Thank you, Susan. Back to the
9 design and performance standards. As mentioned earlier,
10 basically, what we tried to look at was whether it's
11 preferable for a label to say how to do something or
12 telling the user what it needs to end up. And we tried
13 to look at it on the basis of enforceability and
14 benefits, you know, what actually would end up doing the
15 best job of mitigating drift, and then, also, measures of
16 compliance.

17 Now, the thoughts on this, the development on
18 it, the commercial applicator representative -- I
19 preferred the performance based standards primarily
20 because it allows the use of experience, and I've found
21 that many times the design standards actually tend to
22 increase potential instead of reduce it. And that's, I

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1 think, a very important thing. It's not to actually end
2 up with a label requirement that increases drift
3 potential.

4 And then the other important part about on the
5 performance based standards is that it ends up being
6 related to actually an adverse effect.

7 Then the regulatory representative really
8 preferred to have a combination of those because,
9 particularly in the case when the complaint might be
10 somewhat delayed on when it was called in and responded
11 to, that would give them more leeway on enforcement
12 action.

13 One other main point that came out is that the
14 private applicator situation really does need to be
15 explored more.

16 Then something that came up on the 2,4-D study,
17 in particular, is the local need situation because you
18 may have a label that generally permits it and then in
19 the 2,4-D case, of course, there's certain sensitive crop
20 areas that changes it, and how this plays on a national
21 situation is a real question. In fact, 2,4-D does have
22 the label that does require that. And in this particular

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1 case, of course, it is for sensitive crops or those types
2 of things as related to that particular product.

3 Going a little farther with this, generally
4 these local conditions, whether it's a sensitive crop or
5 that combination with the product, typically trigger more
6 restrictive conditions. Of course, in the 2,4-D
7 situation, typically there are blackout dates or areas
8 that at a certain time that can't be sprayed.

9 Then, also, the 303(d)-listed water bodies,
10 already take those into consideration. That may be
11 something incorporated under the labels. Also, we
12 currently have the endangered species regional bulletins.
13 And then, basically, this is the statement that created a
14 lot of our concerns on the 2,4-D label.

15 Okay, then continued on the local conditions, it
16 is thought to be best working with the local regulatory
17 entities and when they're knowledgeable of it.

18 Mapping is something that definitely has the
19 potential to help publicize this. It is already used in
20 some instances and this is something that has a lot of
21 potential to communicate that. And then, also, there are
22 some existing tools that may be included.

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1 And then my last part of this -- okay, okay.

2 UNIDENTIFIED FEMALE: (Inaudible).

3 UNIDENTIFIED MALE: (Inaudible).

4 MS. KEGLY: The fourth difficult issue that we
5 were dealing with was looking at real world impact and
6 getting feedback into EPA on how the label is actually
7 working, is it doing what they intended when they wrote
8 those restrictions on the label?

9 This means looking at risk assessment models and
10 see if they're giving you accurate information;
11 determining the impact of labeling on the user's
12 behavior, and this means, you know, does the user
13 actually read the label, and if they do, do they
14 understand what you meant by what's written on the label;
15 and then, also, looking at whether people are actually
16 complying with the label.

17 So, our thoughts on those particular issues are
18 that some iterative testing of models against real world
19 conditions, and this might be water sampling or air
20 sampling, would help you ground treat your models and see
21 that you're really proposing something that's effective.

22 It would also help to have more data that was

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1 mentioned earlier in terms of gathering poisoning
2 incident reports to see if you're being better or more
3 effective at preventing this incident. The AAPCO survey
4 -- American Association of Pesticide Control Officials,
5 is that what it is? Something like that. They work
6 together in many states to put together a survey and get
7 it back in to -- I guess Dave Scott ran it -- to look at
8 what the problematic chemicals were and types of
9 incidents. That could be enhanced to, you know, look at
10 what types of applications, what chemicals cause, you
11 know, more of a problem than others, and you could target
12 your enforcement activity on those situations.

13 A common theme was that if the states are going
14 to be asked to do these kinds of things, they need more
15 resources, states and tribes, and this encompasses all
16 kinds of activities, including enforcement training,
17 applicator training and certification and monitoring.

18 There was some discussion about more monitoring,
19 preferably done by an objective entity. There was some
20 discussion of having the registrants do some of the
21 monitoring and maybe some of the communities that are
22 affected by drift assist with some of the monitoring, as

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1 well as the states. So, I think there's some agreement
2 that we'd all prefer an objective entity to be doing
3 those tests.

4 Then there was a discussion of, you know, do we
5 need a new EPA process to test and develop labels? Can
6 we do focus groups with actual pesticide users to see
7 whether the label is communicating what we'd like to
8 communicate? Surveys and perhaps a new person in EPA
9 with expertise in kind of communicating this kind of
10 technical information that needs to be accessible to
11 people who may not make it -- well, everybody gets
12 overwhelmed by too much information.

13 And, finally, basically where we're headed next,
14 EPA's going to update the work group on the permethrin
15 and 2,4-D labels. We are going to revisit some of these
16 issues that need more discussion, and we'll begin a
17 report for the PPDC.

18 MS. LINDSAY: Well, it's 5:00 and -- which you
19 all know, you've probably been looking at your watches.

20 **(Laughter.)**

21 MS. LINDSAY: I think that there's probably time
22 for a limited amount of discussion, I think particularly

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1 if you see an issue that you just couldn't recognize in
2 the presentation that Scott and Susan gave that you think
3 would really be important to add to the list of issues.
4 That's valuable to us at this point.

5 So, let me open it up. I see, Matt, you've got
6 a --

7 MR. KEIFER: We in Washington State have a
8 pesticide incident reporting and tracking panel which
9 follows pesticide poisonings in the state, and each one
10 of our pesticide poisonings that gets reported and meets
11 certain criteria is investigated by an investigator from
12 the Department of Health. They do an excellent job of
13 doing this investigation, and one of the things that we
14 on the PIRT recommended that they do a couple years ago
15 was to try and design a fault analysis of each time
16 somebody got overexposed.

17 Oftentimes, we learn more from our failures than
18 our successes, and one of the things that pesticide
19 poisonings represent or pesticide incidents represent is
20 a failure. So, we should be looking at each one of these
21 things, which means prompt response, thorough
22 investigation, but a lot of states don't have the support

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1 to do that. So, I think EPA maybe should start thinking
2 about how they can support the states. I know they do
3 the sensor project now, but sensor -- and sensor is good,
4 but it doesn't necessarily have a focus on the label or
5 on the recommendations, on how it might be failing, and
6 that's, to some degree, because of who's doing sensor.

7 But injecting that kind of -- an understanding
8 of fault analysis into the process might be very helpful.

9 MS. LINDSAY: Okay, great, good suggestion.
10 Dennis?

11 MR. HOWARD: This isn't so much a comment about
12 what's left out, but more about what was done with the
13 work group. I had the opportunity to sit in yesterday
14 and just watch the conversation. I thought it was
15 actually a remarkable dialogue. I haven't seen anything
16 like that, in my experience before, where you had a very
17 constructive dialogue going back and forth in several
18 different directions, but primarily between folks with a
19 regulatory vent and those with -- on the applicator side
20 of things and both with real world experiences to share.

21 What struck me was that the focus being on the
22 label as it was, it just brought to mind the fact that,

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1 sure, there are problems with drift statements on labels,
2 but those are just a microcosm of the kinds of problems
3 that applicators face when they try to interpret labels,
4 and the idea that the label is supposed to be all things
5 to all people, I think, is a strong observation. It
6 seems to me like labels have been around as long as
7 pesticide regulations have been and they've evolved over
8 the years. But I don't know that the agency's really
9 ever had a chance to take a strong look at what the label
10 actually is doing and how it's constructed now, and the
11 idea about having focus groups to look at its ability as
12 a communication tool, as well as a legal tool, I think is
13 really valuable.

14 I would just recommend that that line of
15 thinking be considered further by the committee.

16 MS. LINDSAY: It looks like I might have
17 intimidated everybody else that's not speaking, but the
18 comments were actually very good.

19 MR. JONES: Thanks. I want to thank Jim Hanlon
20 and Anne Lindsay for their leadership of this work group.
21 They're not done yet, and as the next steps slide
22 indicates, they're going to have one more meeting -- as

1 they indicated, they're going to have one more meeting
2 which will result in a report that comes back to the full
3 committee. I think the same -- as Anne mentioned in her
4 opening remarks, the same issue with this work group as
5 applied to the worker certification and training work
6 group, which is what do we need to do to make sure that
7 we can have an expeditious dialogue around the
8 consideration of the work group report without having to
9 repeat everything that the work group did.

10 And we'll spend some time -- I'll think about
11 that tonight. I ask you to do the same. We'll spend
12 some time tomorrow seeing if we can come up with some
13 ideas about how to achieve sort of fully informed --
14 having fully informed advice without, again, sort of
15 reliving the whole work group process, which I don't
16 think anyone's going to want to do, either those who did
17 live through it the first time or those who didn't.

18 So, we'll close this (inaudible) part of our process
19 right now and look forward to your report at our next
20 meeting. Thanks very much.

21 Thanks to Susan and Scott, as well, who are not
22 members of the PPDC itself, but were obviously very

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1 active members in this subcommittee. I appreciate your
2 not only taking your time to participate in the work
3 group, but your time and your hutzpa to come and talk to
4 the whole committee. I appreciate that very much.

5 Okay, so, Margie --

6 MS. FEHRENBACH: No comments.

7 MR. JONES: No comments. Well, what was I
8 worried about being on time?

9 **(Laughter)**.

10 MR. JONES: We are now officially ahead of
11 schedule. I'm a man who likes to be ahead of schedule.
12 So, we are going to call it a day and we'll be back here
13 8:30 tomorrow morning. Thank you all.

14 **(Day 1 was adjourned.)**

15

16

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18

19

DAY TWO

20

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21

22 MR. JONES: We are going to get started this
morning. I think I'll wait until later in the morning to

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1 talk about some of the work group issues and how we can
2 manage so that we don't -- people don't feel the need to,
3 as I say, relive the work group in the full committee and
4 how we can make sure people have an opportunity to have
5 their views expressed without, again, everybody being on
6 every work group or this full committee having to relive
7 every moment of every work group. We'll have some
8 dialogue around that later this morning. I've got some
9 ideas. So, we'll talk about that later in the morning,
10 and if you can also continue to think about that through
11 the morning.

12 Are there any points that -- I know we sort of
13 ended the day yesterday where people seemed to have
14 gotten a little bit tired and I wanted to make sure any
15 points people want to make, clarifying or questions
16 regarding any of yesterday's presentations before we
17 start on this morning's agenda.

18 Carol?

19 MS. RAMSAY: Jim, I'd like to retract my concern
20 for the report. It was actually a concerns for the
21 measures I had, not a concern for the report. So, I'd
22 like to retract that.

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1 MR. JONES: Okay, I appreciate that. Anyone
2 else?

3 (No response).

4 MR. JONES: Okay. So, we're now going to talk
5 about registration review, which is our new old chemicals
6 program. This work group was quite instrumental in
7 helping us to develop the regulations that will -- we
8 will need to operate under for registration review, and
9 we want to give you a sense as to where we are in
10 implementation and we also are going to be proposing to
11 have a work group of the PPDC help us focus on
12 implementation early on, so we don't get one, two, three,
13 four years down the road and, at that point, people begin
14 to feel uneasy about how we're making some of the early
15 decisions in registration review. And by decisions, I
16 don't mean chemical regulatory decisions, but how we're
17 actually planning on -- what we're going to assess and
18 what data do we think we need.

19 So, Debbie's going to take you through all of
20 that and then we'll talk about this work group further.

21 MS. EDWARDS: Okay. As Jim said, I'm going to
22 take you through, actually, a relatively short

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1 presentation because mostly in this hour, we want to hear
2 what you have to say.

3 So, as I mentioned yesterday, the what's next, a
4 big piece of what's next for the old chemicals program is
5 registration review. The FQPA set this up for us by
6 modifying FIFRA 3(g) that requires this periodic review
7 of pesticide registration. It covers all pesticides as
8 opposed to the way reregistration was set up. In other
9 words, reregistration was set up for pesticides
10 registered prior to 1984. This covers all the
11 pesticides.

12 The goal is to have every 15 years, at minimum,
13 each pesticide re-reviewed within the program.

14 With your help, we got the final rule in place
15 and effective last month, and one day later, we announced
16 the schedule. The rule requires that we post at least
17 three years, we actually posted four years. That's not a
18 schedule for completion of these actions, it's a schedule
19 for opening of dockets because you don't know yet when
20 the schedule will be for the individual chemicals until
21 you finish that process.

22 The final rule, if you haven't read it, it's a

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1 good rule, I think. So, I recommend that you do read it.
2 I like it. It describes a very flexible, transparent and
3 very open process to do this work. It includes a robust
4 public participation process that's modeled on what we
5 learn from the existing public participation process.
6 I'll talk in a minute about some of the differences
7 there.

8 And, again, it ensures continuity. It's
9 continuing. It would be every 15 years until and if that
10 rule is ever revised or the law is revised.

11 We're planning to run this a little bit
12 differently than reregistration. The way it's set up
13 now, we would need to be opening and closing 45 cases, at
14 least, every year. That's a lot of work. In addition to
15 that, we believe that, for the most part, particularly
16 with respect to tolerance assessment, we're already up to
17 speed. You know, we've reviewed all of these chemicals
18 since 1996, except 84 tolerances. So, we think we can
19 look at this a little bit different way.

20 What we're planning to do is do a fairly
21 significant problem formulation, we call it, up front for
22 these chemicals, which we would present in the docket,

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1 and questions we're asking ourselves is we're going to
2 pull up all the most recent assessments on these
3 chemicals and say, what's changed, if anything, since our
4 last assessment in both dietary, drinking water, worker
5 risk, residential risk, ecological risk and so forth.

6 If anything's changed, how significant is it?
7 Would we need new information for these chemicals? And
8 probably the most important question we'll be asking
9 ourselves as we do this problem formulation is this last
10 one here, which is, is the regulatory position likely to
11 change as a result of any new information we might think
12 we would normally need, and if not, we probably won't
13 request it.

14 Just to give you a comparison, I think many of
15 you have seen this before, but I think it's good to see
16 some of the differences here. Like I just said,
17 registration review is all pesticides, 15-year review as
18 opposed to that one-time review. I just mentioned 45-
19 plus pesticides a year. It depends on how many
20 additional ones we register and how many drop off the
21 plate as the years go by. This process was set by rule
22 as opposed to law. The law has a very brief piece about

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1 this process, but it did say you had to have a rule in
2 place and we have that now.

3 Again, I just mentioned as opposed to
4 comprehensive start-from-the-bottom reviews, we intend to
5 update existing reviews, add to what we know, and we
6 anticipate much fewer data needs than in the past because
7 we've called in an enormous amount of data, as many of
8 you know, through the reregistration process.

9 In terms of public comment periods and the
10 public participation process, it is a little different.
11 In reregistration, the first public comment period was on
12 the risk assessment. That's not going to be the case
13 here. The first public comment period occurs with the
14 opening of a docket in which we -- I'll go into it more
15 in a little bit, but basically it describes what we know
16 and what we think the path forward is and asks all of the
17 public to comment on that. So, it's actually involving
18 the public in the development of our work plan for each
19 individual chemical.

20 Then the second comment period, which will
21 happen for most of the chemicals, except for very low
22 risk chemicals, would be on the Preliminary Risk

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1 Assessment, to the extent that any new ones are needed.

2 That wouldn't always be the case.

3 And another new thing, actually, that we'll be
4 doing here is we're going to be seeking public comment on
5 our decisions. So, they'll be draft decisions as opposed
6 to right now, we put out decisions, sometimes we seek
7 comment on them if we think that's appropriate, sometimes
8 not. But in this situation, the regulation actually
9 provides for a comment period on all of the draft
10 decisions.

11 And there will be other comment periods as
12 needed. There could be one on proposed mitigation
13 options that's in the rule. It's not a requirement. It
14 may happen occasionally, even before we do a proposed
15 decision.

16 I'm actually not going to go through this. This
17 is in your materials. You can look at it. But it's
18 basically the decision logic for how we move through this
19 process, and it's pretty much described in the talk I'm
20 giving here, but it's kind of for you to look at later, I
21 think.

22 In terms of transparency, we have some things

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1 we're going to be doing to try to make it very
2 transparent. We're going to use the same docket numbers
3 throughout the whole process for a given chemical. So,
4 if you go into the docket, it might have up to three or
5 four comment periods, but we'll be using the same docket.
6 You can go in and see the whole history of how we get to
7 a decision. We think that's important.

8 And, in addition, much like we've had with
9 reregistration, we're going to have a website that shows
10 schedules, the status of each chemical. What we're
11 planning to do right now is once we close these dockets
12 and evaluate the comments, we would post our work plan
13 right on the web so people can see what the path forward
14 is for each chemical.

15 I went through some of this yesterday, so I
16 won't belabor it, but we are ramping up into registration
17 review. We still have a fairly significant amount of
18 work done to complete reregistration. I mentioned
19 yesterday the non-food REDs, finishing the tolerance
20 reassessments. There's a lot of RED implementation work
21 and, obviously, product reregistration has to be
22 completed, DCIs and so forth. So, this year, we're

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1 ramping up not opening up 45 dockets, but rather 25 and
2 then hopefully next year we can go ahead and open up the
3 full 45.

4 This is a list of the conventional that we'll be
5 opening this year. There are 15 of them listed there.
6 Obviously, these are chemicals that were registered very
7 shortly after 1984. Probably that first year, actually.

8 The next page here shows the antimicrobials that
9 we'll be opening this year, because we're opening a total
10 of 25 dockets. So, you'll see that there are several
11 antimicrobials and biochemicals and some microbials that
12 we'll be opening dockets.

13 In terms of the first steps, this is a lot of
14 the work we'll be doing this year. Like I said, we're
15 going to open the dockets and get your comments. That's
16 a 90-day comment period we'll be providing early this
17 year. We'll see if we'll continue that or move that back
18 to a 60-day at some point. But -- for efficiency's sake.
19 But, for now, we think it's appropriate to have a 90-day
20 comment period. People are not used to this process yet.

21 Obviously, as I said, we'll review all the
22 comments and additional information. This is an

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1 opportunity not just to comment but to provide us with
2 additional data that maybe we just weren't aware existed.
3 At that point, we'll determine what exactly is needed to
4 be done to complete the registration review case for the
5 chemical and develop the final work plan and then proceed
6 with that work plan. We'll schedule it out. So, we may
7 need DCIs, we may need to do risk assessments, we may be
8 able to move directly to a proposed decision. But that
9 remains to be seen for each one, and that's why the
10 schedule on the web right now only shows docket openings.

11 We're currently working on several dockets. The
12 goal is to open some dockets this quarter, and if not
13 this quarter, early next quarter. I think many of you
14 that participated in some of the previous work on
15 registration review know that we had a feasibility study
16 on what this might cost, how it might go with a few
17 chemicals. We're seeing that what we're doing on these
18 first dockets is tracking pretty well with that. For the
19 most part, the human health risk assessments look fine.
20 We may not need to do any additional work on many of
21 these chemicals.

22 In the ecological area, obviously, we're going

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1 to need to probably do some additional work to come into
2 compliance, in many cases, with the Endangered Species
3 Act, and so, in some cases, there may need to be more
4 data submitted in order to complete that.

5 Our goal is to, like I said, get some open this
6 year, and those would serve as a model for -- we're going
7 to learn by doing here.

8 Again, not to belabor this again, but what we're
9 going to do in the docket is explain where we think the
10 path forward is for the chemical, okay? What risk
11 assessments we think need to be done, what data we think
12 need to be generated, what data are missing. Maybe they
13 don't need to be generated, maybe you can show us that
14 they already exist. And we're going to give our full
15 thought process for all the potential pathways of risk
16 and pose questions to you for comment. In particular,
17 we're going to be very interested, because of the
18 Endangered Species situation -- and Steve will talk about
19 this much more in the next session, I think. But we're
20 going to be interested in as specific as possible of use
21 and usage information throughout the country for each
22 individual crop.

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1 So, people, once they see our schedule, which,
2 like I said, it's posted on the web for the next four
3 years, can start working on that well in advance, and
4 we're probably going to have a relatively standard set of
5 questions that we'll have on that kind of information,
6 grower organizations and so forth can begin working on.

7 This part, I'm just continuing to describe the
8 steps in preparing the docket. I pointed out previously
9 two of the biggest areas that are going to be big issue
10 areas for registration review, obviously, are endangered
11 species, which Steve will talk about in a few minutes,
12 and then endocrine disruption, which is actually the
13 topic of another session later today. So, those are
14 going to be two key areas for us.

15 I don't think -- I think the rest of this slide
16 is pretty much redundant. So, let's move on.

17 I'm going to give you an example. This is a
18 theoretical example, although it's based somewhat in fact
19 and experience. We've been working through and
20 developing some dockets for chemicals. This is an
21 herbicide and this is kind of what we have found. I
22 won't say which herbicide it is. It can be a test

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1 question for once you look at the schedule and figure out
2 which one.

3 But we looked into this particular herbicide to
4 see what we thought the appropriate path forward was and
5 what we determined was, as I mentioned before, this is
6 going to happen often, we think, we don't think any
7 additional human health risk assessment is needed.
8 Dietary risks are below the levels of concerns, including
9 drinking water. There are no residential uses for the
10 chemical. All the worker MOEs are, again, below the
11 level of concern.

12 We think we have adequate data. There's not a
13 great deal of uncertainty in those assessments. We
14 considered any new policy changes and methodology that
15 had come into place over the years and we're confident
16 that we've taken care of -- that the current
17 registrations are fine with respect to human health risk
18 basically.

19 On the environmental side, however, it's an
20 herbicide, so what would you expect. It poses acute risk
21 to terrestrial plants and there are some incident reports
22 actually describing harm to terrestrial plants. There

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1 have been some fairly significant buffer zones put in
2 place to protect plants. Those are actually on the
3 product labels, but they don't take into account all
4 formulations. So, we're thinking we may need to do some
5 additional buffer zone assessments to look at all the
6 different formulations, possibly using some of the new
7 air models if it's a pretty volatile chemical.

8 In addition to that, the risk to plants, at
9 least the (inaudible) level assessments show potential
10 chronic risk to mammals and acute risk to some aquatic
11 organisms.

12 So, obviously, we have predicted risk, the non-
13 target organisms here and screening level basis. There
14 may be effects on endangered species, but that's just the
15 initial screening level assessment. And so, we'll need
16 to do a more refined risk assessment that looks more
17 carefully into some of the things I've just described,
18 the different formulations and the actual potential risks
19 to endangered species, including an indirect effect. We
20 haven't typically done a lot of those kinds of
21 assessments in the past.

22 What happens then with this particular chemical,

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1 like I said, we're going to put all this out. There's
2 going to be a document that describes this. There are
3 going to be all the supporting materials there. We're
4 going to seek comment on what we've described as what we
5 believe is the appropriate path forward for the chemical.

6 I think in this particular case we're not even
7 saying that we think we need any additional data; we just
8 think we need to do additional assessment so we'd be able
9 to move forward with risk assessment.

10 In terms of your input, obviously, as Jim
11 mentioned, we benefitted greatly from PPDC input on
12 development of the regulations for registration review.
13 We're also interested in getting some advice on how we're
14 going about this problem formulation and docketing
15 process and work plan development. So, Jim mentioned
16 earlier, we kind of like to consider -- maybe we can get
17 some feedback on that here in a minute -- some
18 subcommittee to discuss a couple of these case studies,
19 some of the early dockets we're going to be opening.

20 We would do this probably during the comment
21 period and continuing afterwards, if need be, to work
22 towards -- we put all our information into the docket and

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1 then we could have some meetings around the information
2 and the thought process that went into preparing that
3 docket with a subcommittee and work toward development of
4 a work plan for those chemicals, and that would help us
5 then in the future with all the rest of the chemicals we
6 have to do. So, hopefully, we'll get some good feedback
7 on that.

8 So, in conclusion, we're up and running on
9 registration review, just barely, but we're up and
10 running. We're going to begin that transition and,
11 hopefully, next year move into full 45 docket openings.
12 We want to make them as transparent as possible. We want
13 to get good comments and we want your feedback. Thank
14 you.

15 Oh, by the way, this final slide shows -- these
16 are the addresses, you see the bottom link there is for
17 the schedule and the next to the last link is for our
18 registration review webpage, which, by the way, I think
19 is a very good webpage. So, you should probably take a
20 look at that.

21 MR. JONES: Matthew?

22 DR. KEIFER: One thing that I'd like to share

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1 with the group is that as a clinician seeing farmworkers
2 in clinics, I'm constantly frustrated by my inability to
3 confirm diagnoses. I'm frustrated by the fact that
4 patients come to me with complaints about exposure and
5 I'm, effectively, without tools to confirm that this is
6 not the flu, that it's not some other kind of illness,
7 but in fact it relates to the chemical that the worker
8 proposes is the cause.

9 So, what I'd recommend is that the Environmental
10 Protection Agency consider in the registration process
11 the expectation that the registrant develop or assist the
12 development of clinical tools -- biomonitoring techniques
13 and clinical tools to confirm or refute the exposure. It
14 seems to me that having looked at the registration
15 process, there's a number of places where those tools
16 could evolve out of the toxicological information that's
17 provided to the EPA and become a useful clinical
18 instrument. I think it would not be that great an
19 expectation beyond the registration process to ask that
20 to happen and it would be particularly -- it would be
21 enormously useful for us to have those tools available.

22 MR. JONES: Gary?

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1 MR. LIBMAN: That was an excellent presentation.
2 Just a couple of questions on it. On the one slide,
3 slide number six, where you talk about the public comment
4 and the three different dockets, if you will, or the
5 three different comment periods, it might be helpful to
6 see almost a time line continuum to see what -- you know,
7 how -- what is expected -- obviously, things can change.
8 But it would be helpful for certainly registrants to have
9 a sense of how long each of these comment periods are
10 expected to be.

11 MS. EDWARDS: Right. I mean, right now, we're
12 anticipating that we would have the 90-day comment period
13 on the docket opening and then probably the 60-day
14 comment period that we typically have now, bearing in
15 mind that there would be some distance between when you
16 would open -- let you know the various time periods.

17 And then, in certain cases, when more time is
18 needed, you know, we're able to do extensions, if that's
19 appropriate. But I think you're right. What we hope to
20 do for the -- when we start publishing work plans is show
21 the whole time line. In other words, the work plan is
22 these are the things we have to do and this is how long

1 we think it's going to take, and this is when we think we
2 could make a decision.

3 MR. LIBMAN: I have another quick question, too.
4 On the chemicals and the biologicals that you've chosen,
5 the 35, was it arbitrary or was there some logic to the
6 antimicrobials and the biochemicals and microbials and
7 the conventionals?

8 MS. EDWARDS: It's just based on when they were
9 registered in these particular cases. For this year,
10 these were all registered, you know, very shortly after
11 1984.

12 MR. LIBMAN: Oh, okay. I wouldn't mind being
13 involved in the case study things that you're doing
14 (inaudible). When you do your case studies, are you
15 going to be doing it by maybe two, three products? I
16 don't know how you're going to work it out, but are you
17 going to have it like in broad categories? One would be
18 conventionals, one maybe biologicals, one anti-microbials
19 or something?

20 MS. EDWARDS: That probably makes sense. We
21 haven't really gotten that far.

22 MR. LIBMAN: I think that would make sense, so

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1 that would be my suggestion.

2 MS. EDWARDS: I think the first ones we're
3 planning to do would be conventionals, but I don't see
4 any reason why we couldn't do case studies on them. We
5 probably should do at least one on anti-microbials and
6 microbials.

7 MR. LIBMAN: Thank you.

8 MR. JONES: Cindy?

9 MS. BAKER: Thank you, Jim, and thank you,
10 Debbie. I was part of that original work group, and so,
11 I'm pleased in both reading the rule and what just
12 recently came out, and also, the way that the agency
13 explained how they addressed the comments that came in.
14 While I wish some of those comments had been the way that
15 we submitted comments, it was very helpful the way that
16 you explained why you didn't do what you did when the
17 comments came in.

18 And I think if you read through that, Gary,
19 you'll see there's a lot of explanation in there about
20 how they're going to do these things. I think it's very
21 useful in that respect. I think the website is very
22 helpful to go to and pull those things through.

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1 And I just wanted to make two comments. I
2 think, one, I'm pleased to see in your presentation
3 today, and also, in the way that it's written up in the
4 rule that fast track off category that we talked about to
5 save the agency resources in those cases where you have
6 the kinds of things that you laid out there, because I
7 think you will -- not so much in this first round, in
8 fiscal year '07, but surely as you get into '08 and '09,
9 you're going to have chemicals where you've already done
10 quite a bit of work, and so, there might be specific
11 areas that you come to.

12 And I, like Gary, would like to participate in
13 this subgroup. I'm lucky enough to have two actives in
14 that fiscal year '07 list, and so, I'd be interested to
15 see kind of how those go through.

16 MR. JONES: Thanks. Ray, then Susan, then
17 Caroline, then Beth.

18 MR. McALLISTER: I have a couple of questions.
19 First off, in developing the schedule for registration
20 review, have you folks consulted with the services, the
21 Fish and Wildlife Service, the National Marine Fishery
22 Service, regarding the priorities for endangered species

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1 review?

2 MS. EDWARDS: Yeah, we have discussed the
3 schedule with them.

4 MR. McALLISTER: Okay. The other question I had
5 was in your problem formulation phase and posting the
6 information in the docket, you may or may not identify
7 additional data that you feel might be needed. But in
8 addressing the particular issues that show up in the
9 problem formulation, one or more registrants may feel
10 that there are additional data that could address those,
11 data that don't yet exist and would need to be generated.

12 Now, the agency may feel, we can go ahead
13 without data, but if -- how would you handle that
14 situation where a registrant feels additional data would
15 be helpful, but you don't feel that it's absolutely
16 necessary? How do you build time into the whole process
17 to be able to generate that data that does not yet exist?

18 MS. EDWARDS: Well, let me give you -- I don't
19 know, this is a little bit simplistic answer, but let's
20 say we're missing some data but we can make some, what we
21 often call worst case assumptions, you know, that lead
22 you to the high end of uncertainty around that and we

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1 still don't show a problem, even in the absence of those
2 data. We might say that, you know, from our perspective,
3 we can make a safety finding without actually having
4 additional data.

5 On the other hand, if we don't think we can make
6 a safety finding without those additional data, we would
7 likely issue a data call-in, unless during the comment
8 period it became clear that there were data available to
9 address those uncertainties.

10 MR. McALLISTER: Okay.

11 MR. JONES: Okay, Susan Little.

12 MS. LITTLE: I just have a quick question on
13 finalization of guideline requirements. There are
14 several out there, specifically the 158 Part W that's
15 going to drive a lot of the data development in the next
16 phase. Where's the agency on finalizing all of these
17 different guideline requirements?

18 MR. JONES: The 158 for conventional will be
19 finalized in this fiscal year, FY '07. The proposal for
20 158W is likely to be -- it's likely to be proposed in
21 this fiscal year. So, it's a little bit off before we
22 actually are finalizing the requirements for anti-

1 microbials. We're also going to finalize, this fiscal
2 year, the requirements for biochemicals, 158L and M.

3 MS. EDWARDS: And just to add, those are
4 actually the rules which specify the date requirements,
5 the test guidelines, the protocols as to how to do those.
6 There were a number -- I think the largest set was in the
7 environmental (inaudible) arena where we have been in the
8 process of harmonizing those guidelines, both within the
9 U.S. and internationally, and the vast majority of them,
10 at least 16 out of 17 -- and I think the 17th may
11 actually be very close to completion and we would expect
12 to actually publish notice of that in the very near
13 future. So, I think almost all of the critical test
14 guidelines underlying both Part 158, the conventional
15 chemicals, as well as in other areas are pretty much
16 done.

17 MS. BAKER: Thank you.

18 MR. JONES: Caroline Cox?

19 MS. COX: One question, when you talk about
20 looking at what's changed since the last risk assessment,
21 is that going to include kind of a search of published
22 peer reviewed literature that pertains to the particular

1 chemical?

2 MS. EDWARDS: Yes.

3 MS. COX: Great, I'm really glad to hear that.

4 And then, secondly, I wanted to really support what
5 Dr. Keifer said and add to it. I was thinking one of the
6 things that's really likely to have changed in the last
7 15 years or more for some of these chemicals is the
8 development of better analytical equipment and analytical
9 technique. We have some pesticides that we don't have
10 good analytical technique for in all media and it seems
11 like that's something that should definitely be included
12 in this registration review, to get those techniques all
13 worked out and available to the public.

14 MR. JONES: Thank you. Beth Carroll?

15 DR. CARROLL: You mentioned more specific use
16 and usage information as you were talking about the goals
17 for the docket, and I just wanted to be -- to understand
18 where the IMS information fits into this and how it's
19 going to be updated for the endangered species
20 assessment?

21 MS. EDWARDS: I actually think that probably in
22 the next session that's a better question for Steve

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1 unless we -- if that's all right with you.

2 DR. CARROLL: Okay.

3 MS. EDWARDS: Because it's going to be a
4 critical part of the kinds of things he's going to talk
5 about.

6 DR. CARROLL: And then, my assumption is you'll
7 take a look at that first before issuing the DCI.

8 MS. EDWARDS: We will look at all available
9 information, of course, before we would issue the DCI.

10 MR. JONES: Okay.

11 MS. EDWARDS: The goal is to get to decisions as
12 quickly as we can and issuing DCIs prevents us from doing
13 that.

14 MR. JONES: Julie and then Dennis Howard.

15 MS. SPAGNOLI: I, like Cindy, was part of that
16 work group and I want to share, as she did, that we're
17 really pleased. I think we put in a lot of time and a
18 lot of -- I think it was about three years that work
19 group was together, and so, we're really, really pleased
20 with what we're seeing, that it really reflects -- pretty
21 much, you know, the group had their discussions, but
22 really kind of came to a consensus and that this really

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1 reflects the -- I think we addressed the concerns from
2 all stakeholders and this reflects it, and I just see
3 that as a good model.

4 Now, I think we're seeing the same thing with
5 the work group protection rules, that by engaging people
6 and kind of making sure we've got all the issues on the
7 table, in the front, it really helps come up with a
8 better product and I just wanted to say how pleased we
9 are with this.

10 MR. JONES: Thanks, appreciate that. Dennis and
11 then Mary Ellen.

12 MR. HOWARD: Well, I was going to ask about
13 usage, but since that will be deferred to Steve's
14 discussion, maybe, Debbie, could you help me understand
15 the linkage between the talk we had yesterday on water
16 quality impact (inaudible) FATE were going to be
17 speaking, that's going to come before that first comment
18 opens, right?

19 MS. EDWARDS: To the extent that it can, yes. I
20 mean, what we want to do is work with the regions and
21 states and with the schedule that currently exists. I
22 mean, you could look right now at the schedule and see

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1 the first four years of docket openings, to the extent
2 that people can begin gathering those data so that the
3 data can be available to the entire public in the docket
4 when we open it, that's the goal.

5 Having said that, the data, if that's not
6 possible for some reason, could be submitted during the
7 time that the docket is open and even thereafter. But
8 the later it gets submitted, you know, the more difficult
9 it is for us to use it in the most effective way. But we
10 have a very predictable schedule now. So, we should be
11 able to work very closely with people and get the data up
12 front.

13 MR. HOWARD: Right, that would be helpful. Do
14 you anticipate that there will be other types of
15 information that state lead agencies could be trying to
16 pull together for you to help with your assessments
17 beyond water quality?

18 MS. EDWARDS: Yeah, incident data, any kind of
19 monitoring data that exists. I mean, we want to hear
20 about everything, to be honest. I can't think of any
21 kind of data or information that we don't want to see.
22 So, we can continue those conversations.

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1 MR. HOWARD: Should they assume that incident
2 data that we may know about, the agency may not know
3 about?

4 MS. EDWARDS: Exactly.

5 MR. HOWARD: Okay, thank you.

6 MR. JONES: Just a further point of
7 clarification with some of the questions. When we open
8 this docket, it's going to describe all of the data that
9 we've got in front of us. It's not only going to be the
10 standard, you know, 158W or conventional or an L and M,
11 but incident data, water quality data, any other
12 monitoring data from any other source, and also describe
13 sort of how we -- we need to do this assessment, this
14 assessment, and we think we need this additional data.
15 So, you'll all be able to -- the general public will be
16 able to say, you don't have this data over here or we
17 think you're doing too much on that or you're not doing
18 enough on that and I don't understand why you have to get
19 this data, but I think you need that data.

20 So, the public will have an opportunity to let
21 us know if they think we've missed something that they're
22 aware of, or if we're overreaching or if we're asking for

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1 data that we don't think we have or we're not asking for
2 enough data. So, you'll have -- and that will be unique
3 to registration review that did not happen in
4 reregistration, and I get the sense from some of the
5 questions that that's not sort of filtered through yet,
6 which I -- you know, it's very abstract, I realize, which
7 is one of the reasons we want to actually have a work
8 group go through that part of it with us where we're sort
9 of explaining how we came to certain conclusions about we
10 think we need this assessment and that assessment and we
11 think we may need this data and that data, and we base
12 those choices on this body of knowledge we had in front
13 of us. So, I just wanted to provide that further
14 clarification.

15 Okay, Mary Ellen and then give me Robert.

16 MS. SETTING: I just wanted to compliment the
17 agency on the website and the depth of information that
18 you've been providing on the process and the questions
19 you've raised and the answers you have obtained. It's
20 incredibly invaluable to us as state lead agencies when
21 we get requests from constituents either concerned about
22 products used by industries or by our own agencies, and

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1 it's just invaluable to have that information. It's very
2 easy to navigate and find the information. I (inaudible)
3 appreciate it.

4 MR. JONES: Thank you, appreciate the comment.
5 Dr. Roberts?

6 DR. ROBERTS: I mainly wanted to reiterate one
7 of the things that Dr. Keifer said, as well, speaking as
8 a clinician. I'm a pediatrician, so both in child health
9 and adult health, we do need more biomonitoring
10 techniques available to us. One of the other issues is,
11 you know, we spoke a lot about acute poisoning and
12 recognizing it. Clinicians don't recognize this enough
13 and I think a lot of other -- like our opinions anyway,
14 as far as the average clinician, so that having the tools
15 available are important. And in addition to the acute
16 poisoning, I think it's equally as important to gather as
17 much available data on the chronic effects from
18 pesticides to actually recognize or refute these medical
19 problems as coming from a pesticide or not.

20 MR. JONES: Can I ask a clarifying question,
21 Dr. Roberts, of you and Dr. Keifer? You're referring to
22 diagnostic techniques. Do you mean sort of the ability

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1 in the clinical setting to draw blood or urine and be
2 able to say, oh, that's what's happening biologically?
3 So, for example, a cholinesterase test would be such a
4 thing. Is that what you're saying or --

5 MR. KEIFER: That's probably the best example of
6 a diagnostic tool that can be of us, but has limitations.
7 Some of the things such as to bolster cholinesterase
8 monitoring, which has a recoverable half life that's
9 predictable and we know about how long it's going to be
10 depressed, and sometimes we don't know whether
11 cholinesterase, for example, is depressed because the
12 wide range of normal of cholinesterase, the person can
13 come in with a depressed cholinesterase and we can't
14 recognize it unless we have a baseline. And so, what we
15 need is something to augment that, such as the work that
16 Dana Barr at CDC is doing, where she's actually looking
17 at the decorator protein. She's trying to look at
18 whether we can identify the inhibition of the enzymes and
19 connect it to cholinesterase or the decrease in activity
20 of the enzyme and connect it to a pesticide by
21 identifying the unique tag that a pesticide would give to
22 cholinesterase or other enzymes. So, there's a lot of

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1 different opportunities to look for alternative
2 verification methodologies and diagnostic tools.

3 Sometimes, just the physical exam finding
4 complex that we would use in a diagnostic situation is
5 unique enough where we can say, oh, well, this is a
6 pesticide poisoning or this is for a particular
7 manifestation of this chemical. So, it spans the
8 spectrum of diagnostic tools that clinicians need and can
9 use, and I would encourage that there we have some effort
10 invested in clarifying what those would be.

11 This is up, again, if I have enough (inaudible).

12 MR. JONES: I thought I understood the point
13 both of you were making, but I just wanted to make sure
14 that I did. Thank you.

15 DR. ROBERTS: And I have a little extra
16 clarification.

17 MR. JONES: Sure.

18 DR. ROBERTS: In addition, we're talking about
19 cholinesterase testing, but that's for just the
20 organophosphate or (inaudible). And so, with the
21 pyrethroids, there really are no tests that you can do
22 with the exception of testing the metabolites in the

1 urine. But that's only going to be for a class of them,
2 it may not be for one specifically. And then, it goes on
3 to the larger number of newer compounds that there are
4 not even any types of tests for.

5 MR. JONES: Thanks. (Inaudible).

6 UNIDENTIFIED MALE: I just want to point out
7 that one of the things that I have concern about in this
8 process is the degree of public participation of the
9 public who have the direct -- who suffer the direct
10 impact of some of these chemicals, and by that, I would
11 identify farmworkers, particularly, machinists and
12 biocides, the biocides that are put into lubricants to
13 control overgrowth of activity, which for occupational
14 medicine physicians is a relatively common problem for us
15 to see, that machinists come in with complaints of
16 biocides or of issues related to biocides in lubricants.
17 I'd also add hotel and restaurant workers who use
18 disinfectants relatively frequently.

19 What I would encourage EPA to look at is the
20 environmental justice community based participatory
21 research portfolio of both NIOSH and EPA and NIEHS, which
22 has given unique access to these populations and really a

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1 unique voice to these populations. It has energized the
2 ability of these communities to connect to science and
3 there's been a significant investment in this process,
4 and I think that EPA should look at the opportunity
5 that's created by this connection and potentially use it
6 to obtain better participation from those who might be
7 willing to participate were they to understand their
8 opportunity.

9 MR. JONES: I appreciate that. We will
10 definitely look into that. It's always been a desire on
11 our part to be able to get as much public participation
12 by as many of the affected parties as possible and we
13 recognize that sometimes we've not been able to be as
14 effective in that as we want and having insights as to
15 where it may have been -- where someone else may have
16 figured out how to do that can be quite useful. So,
17 we'll certainly look into that. Thank you.

18 Jennifer?

19 MS. SASS: Yeah, just a question, the data from
20 the Jerome Blondell paper yesterday that I was looking at
21 indicates actually that 26 percent decrease in exposures
22 and poisonings, the unintentional pesticide poisonings

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1 and exposures, is actually all pre-2000. It's from 1995
2 to 2000. That's where that drop is. That would be pre
3 really effective FQPA actions. And since 2000, in the
4 five years after, the reason why that line flattens out
5 is because the decrease in cholinesterase, in OP
6 poisonings, is actually balanced by an increase in the
7 pyrethrin/pyrethroid poisonings minus 1 percent. You
8 actually get only a 1 percent decrease overall from 2000
9 and 2005.

10 But you obviously get a difference in the
11 severity of the poisonings, right? Moving from the
12 chlorpyrifos diazinon poisonings pre-2000 into the
13 pyrethroid pyrethrin poisonings post-2000. So, my
14 question for you maybe, Matt, and others at the table is,
15 do we have a way of diagnosing -- of detecting and
16 diagnosing those kinds of poisonings or is this something
17 that the PPDC could recommend that EPA (inaudible) some
18 of its funding sources for to try and develop those kinds
19 of detection methods? Because EPA actually is -- I mean,
20 you're right, Jim, EPA is the leader in this area with
21 NIHS and these kinds of things. I wonder if you could do
22 that.

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1 UNIDENTIFIED MALE: I think that's what we were
2 talking about before you came in the door.

3 MS. SASS: (Inaudible).

4 UNIDENTIFIED MALE: Exactly. Well, talking
5 about encouraging EPA to assist in the development or
6 expect from registrants the development of the tools
7 necessary to make diagnoses.

8 MS. SASS: Maybe that's something that we could
9 -- as a group we could put forward as a recommendation.

10 MR. JONES: Melody?

11 DR. KAWAMOTO: During the work group on worker
12 protection, we had talked about the surveilling the
13 sensor program and somebody brought up the fact that it
14 was known to be flawed and one of the reasons that it's
15 flawed is because it doesn't really capture all of the
16 poisonings that are occurring, and what they're saying --
17 what Dr. Keifer and Dr. Roberts are saying is one of the
18 reasons that that may be true is because people don't
19 recognize -- number one, people don't recognize that
20 they're being poisoned and, number two, if they do
21 recognize it, there's no way to really document that
22 that's what the cause was. So, this is really an

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1 important issue.

2 MR. JONES: Thanks. Caroline?

3 CAROLINE: I see a couple of issues here. One
4 is we need a better understanding of what kind of
5 communication documents go out to the clinical community
6 so that they -- even if a person walked into a clinic and
7 doesn't realize he or she's been poisoned, maybe we can
8 do a better job of at least putting out, you know,
9 written communications about what to look for. You know,
10 like the simple things you see in the newspaper, you may
11 be having a heart attack if. You know, just some simple
12 things that people can understand about looking for
13 symptoms, right?

14 And the other thing is, what kind of information
15 do we require for the old chemicals when you're doing the
16 re-review that deals with their composition and figuring
17 out their methods and so on? I mean, that's been an
18 issue for a long, long time. I guess I'm asking Debbie
19 that question. If we don't have tests -- I mean, there's
20 -- we don't have tests right now for some of the
21 chemicals to really determine their -- the methods that
22 they operate by, right, for some of the old chemicals?

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1 MS. EDWARDS: Are you talking about the
2 mechanism of action?

3 CAROLINE: Yes.

4 MS. EDWARDS: I don't think we require that.

5 CAROLINE: Well, that's one question I have is,
6 why don't we require that? And then the other question
7 is, if we can develop -- if we do need to develop
8 methodologies to deal with acute poisonings, then we
9 ought to ask the registrant to participate in that
10 process to develop those methodologies.

11 MS. EDWARDS: Um-hum. Yeah, right now, you
12 know, the analytical methodologies that we get have to do
13 with the ones that I'm sure you're familiar with,
14 detecting residues in food and water and making sure you
15 can detect it in the animal studies you're doing and so
16 forth.

17 CAROLINE: Right.

18 MS. EDWARDS: But I don't -- I'm not aware of
19 exactly what you're talking about.

20 CAROLINE: Well, there's detection issues with
21 some of the chemicals and we don't have good information.

22 MS. EDWARDS: Right.

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1 CAROLINE: I'm just wondering why we don't ask
2 for.

3 MS. EDWARDS: Well, we do. I mean, I think if
4 we don't have that information, we do ask for it.

5 CAROLINE: You do ask for it?

6 MS. EDWARDS: That's part of a --

7 CAROLINE: And is there a connection between
8 that and getting information on how to detect these
9 poisonings? Is that helpful to get that?

10 MS. EDWARDS: I would think there would be some
11 connection, but I think you need to have separate methods
12 for detections in urine and blood and people and that
13 sort of thing. You'd need to modify the methods
14 somewhat. But, you know, I mean -- what I'm saying is
15 it's not part of the 158 requirements --

16 CAROLINE: Right.

17 MS. EDWARDS: -- or even part of the requirement
18 within a given study because that study is not required.

19 CAROLINE: Right.

20 MR. JONES: There's a confusion between clinical
21 techniques and methods and methods that allow you to
22 measure a chemical in air, water --

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1 CAROLINE: I don't know if it's a confusion on
2 my part, but it's -- there's a lack of understanding
3 about how the two might connect.

4 MR. JONES: There's the potential for a
5 connection, but we have not routinely required the
6 submission of methods for clinical diagnosis.

7 CAROLINE: Right.

8 MR. JONES: We have routinely required the
9 development of methods for -- can you measure it in food,
10 in water and other environmental media.

11 CAROLINE: Right. Well, given the spirit, at
12 least, of the FQPA, is this something that we should be
13 thinking about asking for as part of the (inaudible)
14 program?

15 MR. JONES: That's something -- so far, that has
16 not been raised in the dialogue that we've had around
17 registration review. But as we go through some of these
18 examples, that may provide a forum for people to say, why
19 aren't you asking for a clinical method? Now, for a lot
20 of chemicals, I think people will come away not feeling
21 the need for one. There will be other chemicals where
22 you say, gee, you seem to have a lot of incident data

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1 here. Can you actually -- can this be measured in a
2 clinical setting?

3 CAROLINE: Right.

4 MR. JONES: Where it may be more appropriate to
5 ask that.

6 CAROLINE: Thank you. That's where I'm going.

7 MR. JONES: Okay. And Michael and Julie and
8 then Ray.

9 MICHAEL: I think that clinical diagnosis versus
10 residue analysis is particularly important with something
11 like rat poison where there are about 20,000 incidents
12 per year reported to the CDC, but hotly disputed by the
13 industry because there's no residue analysis to back it
14 up. And, you know, either they're poisoned or they're
15 not. And I think that level of poisonings per year is
16 really significant and we need to do something to be able
17 to get quick, easy confirmation of the poisoning.

18 MR. JONES: Julie, Ray, Amy.

19 MS. SPAGNOLI: All right, just speaking from
20 past experience, generally, when we do metabolism studies
21 to see what the effects or what the FATE of a chemical is
22 in an animal, it's done in animal. We do rat metabolism

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1 studies. The only one -- I know when we did insect
2 repellant, we did do a human dermal metabolism study
3 because the product was intended for application to human
4 skin and, therefore, could measure how much was absorbed,
5 how it was excreted, how fast it was excreted. But I
6 think the most conventional chemical studies are done in
7 animals. So, there is some data to indicate how it will
8 be metabolized and whether it will be found in the blood
9 and the urine. But it's going to be based on animal
10 data.

11 MR. JONES: Ray?

12 MR. McALLISTER: Those same animal metabolism
13 data would require methods for detecting the chemical in
14 urine and blood.

15 MR. JONES: Okay, Amy, last comment, and then
16 we'll talk about this work group idea for a second.

17 AMY: To go back to Caroline's question about
18 what information goes out to the health care community
19 and health care providers, there are some state pesticide
20 safety education programs that are involved in doing some
21 of that. There's also EPA's own initiative on the
22 pesticide strategy. There is an initiative in Minnesota

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1 that I've been involved with working with the insurers
2 for health care providers to get it into continuing
3 education units ongoing. So, all of these strategies
4 could be effectively used as models and developed for
5 other states.

6 But, again, it's a matter of resources and
7 funding, as well as the issue that both Jimmy Roberts and
8 Matt Keifer has brought up about we can make folks aware
9 of the kinds of questions that they can be asking and
10 that is really key, but we don't have further tools to
11 help them diagnose. So, that would be even better if we
12 could work all that together. But there's a lot of work,
13 I think, that could be done to further this process of
14 helping the health care community recognize and begin to
15 rule in and rule out the possibility of pesticide
16 exposures for both acute and chronic type of problems
17 that they may be seeing in their clinical practices.

18 MR. JONES: Okay, so, what we would like to do
19 is to ask a subset of this group to sit down with us in
20 the winter, early spring time frame to actually look at,
21 in detail, how we're teeing up the first couple of --
22 they might not be the first actual -- literally first,

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1 but of the first 15 to 25 we're going to be doing, two or
2 three or five, depending on the capacity of all of you to
3 hang on it, chemicals as we sort of walk you through,
4 here is the thought process we used in determining what
5 additional assessments we wanted, if there is additional
6 data, we want to have data or not, giving feedback around
7 that, and the basic path forward that we're going to
8 spell out for a couple of chemicals so that there's some
9 early awareness on the part of stakeholders as to how we
10 are coming up with our plan for a specific chemical, and
11 for us -- that's what's in it for you.

12 What's in it for us is that we're getting very
13 early feedback in that initial thought process. So,
14 before we've done 50, 60 or 70 of them, if there are some
15 appropriate adjustments that could be identified now, we
16 could make them now and not wait until we've gotten so
17 far down the road before we realize that there isn't a
18 lot of buy-in to the approach that we're talking. Not
19 that everybody's going to agree on everything, but as I
20 like to say, I like to make my choices with my eyes wide
21 open as opposed to not doing something because I didn't
22 know that it raised an issue for a group.

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1 So, it sounds as if, from some of the early
2 comments, there's an interest in that. I don't know if
3 you have any further questions around it. You don't
4 necessarily need to raise your hand now, but if you are
5 interested, it would be important to let both Margie
6 Fehrenbach know and Debbie Edwards, if you want to be on
7 the -- other than the ones we already have heard. I
8 mean, a couple of you have already expressed an interest
9 in doing it. It is important, as in all our work groups,
10 that we have a range of participation across the various
11 stakeholder groups.

12 I'm guessing from your silence that nobody
13 really has a fundamental objection to this. I'll accept
14 your silence on that, that nobody has an objection. But
15 that is what we will do. Again, if you're interested, if
16 you would let Margie know and Debbie Edwards. If we see
17 that we don't have a nice balance on this group, that
18 it's -- no one in from a certain part of the stakeholder
19 community, then we'll do some recruiting of our own and
20 see if we can achieve that. Again, in a work group, you
21 don't have to be a member of the PPDC to participate, so
22 there's a little more flexibility in reaching outside

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1 this group to make sure we have that balance. So, we
2 will do that.

3 All right, Debbie, Kevin, thanks very much.

4 All right, well, as Debbie mentioned in her
5 presentation, the endangered species considerations are
6 going to be a very big part of registration review. I
7 anticipate that in the months and years to come,
8 endangered species and how EPA gets into compliance with
9 it will be a topic that we routinely bring to this group
10 for some advice.

11 Today, we're basically just going to give you an
12 update on where we are as it relates to our efforts to
13 get into compliance meant to be somewhat of a way to help
14 provoke amongst you some thoughts about how PPDC could be
15 engaged in our endangered species work in OPP, which is
16 that's really what we're trying to do is not only just
17 update you on this is what we're doing, which is an
18 important thing for us to be doing with the stakeholders,
19 but also get you thinking about how there can be a
20 broader engagement in this area.

21 With that, Arty Williams, who's the Associate
22 Director in the FATE and Effects Division, along with

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1 Steve Bradbury, who's the Director, are going to take us
2 through this.

3 MR. BRADBURY: Thanks, Jim. What Arty and I
4 would like to do is spend maybe 20 minutes or so and give
5 you an update status report on where we are in the
6 program on a number of different facets of the program
7 and then we should have plenty of time for questions.

8 What we want to do is spend a little bit of time
9 just reviewing very briefly what the Endangered Species
10 Act is, what FIFRA is and that interface between the two.
11 We're going to spend a little bit of time reviewing where
12 we are in implementation, both in terms of --
13 implementation in terms of registration, reregistration,
14 registration review activities, as well as implementation
15 of the various risk assessment tools and analytical tools
16 that are associated with making an endangered species
17 effects determination and the context of doing a FIFRA
18 risk assessment. We'll spend a little bit of time
19 reviewing where we are in the implementation of the field
20 program to wrap it up, and then, like I said, we should
21 have plenty of time for questions and follow-up as we see
22 fit.

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1 I've taken notes on some of the questions that
2 came up when Debbie was up here and between Arty and I,
3 we'll try to get those questions answered as we go
4 through, but for sure if we miss something, we'll catch
5 it during our question and discussion period. With that,
6 I'll turn it over to Arty.

7 MS. WILLIAMS: Thank you and good morning. As
8 Steve said, I'm going to remind you a little bit about
9 what ESA and EPA's program are all about, but then
10 basically try and give you an update of where we are,
11 what the status of our efforts are in developing and
12 implementing this program.

13 As a reminder, the section of the Endangered
14 Species Act that we're most concerned about in terms of
15 getting this program going is Section 7(a)(2), and this
16 is a section that applies to all federal agencies, not
17 just EPA, and it states that all federal agencies have to
18 insure that actions they take, carry out, fund or
19 authorize or permit -- there are a whole bunch of
20 permissive words in there -- we have to insure that those
21 actions are not likely to jeopardize the continued
22 existence of a listed species which is a threatened or

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1 endangered species, or adversely modify a habitat that's
2 been designated by the services, Fish and Wildlife and
3 National Marine Fisheries Service, to be habitat that's
4 critical to that species.

5 Some time ago, Congress indicated that EPA, in
6 carrying out this program under its FIFRA authorities.
7 Those are our authorities to do anything with pesticide
8 registration. That in carrying out this program under
9 those authorities, we also should be complying with the
10 ESA, and at the same time, minimizing the impact on
11 agriculture and other pesticide users.

12 Some of the characteristics of the assessments
13 and the potential use limitations that we may be putting
14 in place to protect listed species, that speak to this
15 mandate by Congress, are that we, as always, are going to
16 be using best available data and science, but in addition
17 to that, our assessments for listed species are becoming
18 more and more spatially and temporally explicit, which
19 means that we are able to look at a use limitation and
20 narrow it down geographically and on a time line to those
21 times and that geography when it really is a concern for
22 the listed species.

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1 I think I've spoken to you about this before,
2 but our overall implementation approach is to address
3 listed species issues during the course of our normal
4 registration -- I use that term broadly -- activity,
5 which includes registration, what's remaining of the
6 reregistration program and then registration review
7 program, which Debbie spoke with you about this morning.

8 As a reminder -- those of you who are new may
9 not have seen this, but those of you who have been on
10 this committee for a while have seen this graphic and
11 it's just a graphic to demonstrate that through 2008,
12 there are really going to be three major processes
13 running, all of those that I mentioned. At 2008, the
14 reregistration program will be winding down and we'll
15 still have the registration program and registration
16 review program where we're taking actions on pesticides
17 and where we will need to be looking at endangered
18 species issues.

19 The little line at the bottom called Species
20 Specific unusual circumstances process is a process that
21 would run parallel to those others. We were trying not
22 to run parallel processes because it's not real

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1 efficient, but there may be situations in which we need
2 to take something out of that normal registration or
3 reregistration or registration review queue and look at
4 listed species issues outside those standard processes.
5 Some examples of this would be chemicals that, as a
6 result of litigation, the Court has told us we have to
7 look at on a particular time line or if we're just going
8 about our business and some information comes to light
9 that shows something we thought perhaps was not a problem
10 turns out to be a significant problem, we could take
11 something out of queue to look at that issue.

12 The process that we're going to be doing these
13 assessments by is articulated in a document that we
14 shorthand call the overview document. I think the name
15 is Overview of Ecological Risk Assessments for Endangered
16 and Threatened Species or something like that. But it's
17 the overview document. And this document was discussed
18 -- and I'm sure a lot of you were there -- at a public
19 workshop back in 2004 and it was an all-day workshop that
20 basically walked through all the steps in our risk
21 assessment process.

22 Again, in October of that year, we took

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1 metolachlor, which we've been working on at the time, and
2 had another public workshop, went over the same risk
3 assessment process with the public, but used metolachlor
4 as kind of a case study and showed how the generic
5 aspects of the overview document actually applied in real
6 terms to a real chemical.

7 Our assessments are consistent with the
8 processes and the scientific methodology outlined in the
9 overview document, and as a result of that, the services,
10 after a lot of time looking at that document and having
11 discussions with us about our methodology, deemed that if
12 we follow this overview document, the results would be
13 consistent with results they would anticipate they would
14 get were they doing the assessment for listed species
15 effects.

16 The overview document really outlines the
17 methodology for two levels of assessment and we call
18 those baseline assessment and the species specific
19 assessment, and I want to just talk about those a second.

20 The baseline assessment, which is what you all
21 have seen if you've looked, like over the past year and a
22 half, two years, at assessments that have been issued for

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1 public comment from the reregistration program. Look at
2 the toxicity and fate of the chemical. It calculates
3 pretty conservative estimates of environmental
4 concentration using models that don't get you that
5 spatial and temporal aspect that I spoke of before. And
6 it provides a pretty coarse spatial analysis.

7 The species specific assessment builds on the
8 baseline assessment, and rather than identifying
9 (inaudible) of concern, so rather than birds or fish, it
10 would identify individual species of concern, so a
11 particular bird or a particular fish that's on the
12 threatened and endangered species list.

13 This assessment, too, is based on the toxicity
14 and fate of the chemical, but employs refined estimates
15 of environmental concentration and refined spatial and
16 temporal analysis based on specific species information
17 and a variety of other factors, including particularly
18 where the crop is grown, how the pesticide is used on
19 that particular crop and things like that.

20 When we were developing the overview document
21 and having discussions with the services about our
22 processes, there were a couple of areas in which we

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1 included enhancements over what we had been doing prior
2 to the overview document. One of those -- and these
3 apply to both the baseline and the species specific
4 assessment. We articulated in this document that we
5 would not only look at direct effects to the species, but
6 we would look at indirect effects. So, we would look at
7 effects to things other than the species that may impact
8 the survivability of the species itself.

9 Again, in using best available data, the
10 overview document articulates that we will not only use
11 data that's provided us for the purposes of registering a
12 chemical, but we'll also use scientific literature and
13 the methodology for us obtaining that literature is
14 through ECOTOX, which is a search engine maintained by
15 our Office of Research and Development. ECOTOX is
16 available to the public online. You can search it for
17 different types of information, and one of the big
18 enhancements that we're doing for our assessments is
19 we're not only using what's online, but we also, for each
20 assessment, are coordinating with our Office of Research
21 and Development, and they're going back through all of
22 the files they have of public literature that they have

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1 not yet reviewed and coded and put online for the public,
2 doing that review for us and providing us that literature
3 as well. So, it's a pretty broad base of public
4 literature.

5 MR. BRADBURY: Right here I'll jump in and see
6 if I can capture a couple of the questions that came up
7 about registration review. There was a question about
8 making sure we were taking a look at not only registrant
9 submitted data, but also information published, the
10 (inaudible) literature and the ECOTOX search engine is
11 the process by which we're scouring the public literature
12 to include that information with the registrant
13 information, as already mentioned.

14 It's our intention, maybe not with the first few
15 chemicals going into registration review, but once we get
16 fully ramped up, that when we open the docket, we would
17 not only be summarizing the information that was
18 submitted to the registration process by the registrant,
19 but also the information that we're seeing from the
20 ECOTOX search engine, so that the public could see all of
21 the information that we have in front of us, and this
22 would be a way just to double check one more time that

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1 there isn't a paper that we're missing or maybe a paper
2 that published a couple of months after the last time the
3 search engine went through the open literature and just
4 to make sure people know what we've got. If there's
5 anything we're missing, to get that in.

6 Some of the first dockets, we may not have had
7 time to quite get this organized with ORD, so we're
8 capturing what's in the online version and then we'd be
9 catching up over time with other information that would
10 be in there.

11 The question about the IMS and the information
12 that did come to bear there or there was a question about
13 water monitoring and other kinds of information, I think
14 I'll just jump in here and Arty will give you some more
15 specifics about some of those kinds of information. But
16 there are hopes that when the docket is open and people
17 are sort of -- are taking a look at this problem
18 formulation and sort of seeing how the risk assessment
19 for this baseline level is sort of shaping up, to the
20 extent groups or individuals have more site-specific
21 (inaudible) the explicit information about where the crop
22 is, how the product's used, when it's used, what

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1 application methods are used with that product, when that
2 docket's open, that would be a perfect time for that
3 information to come into the agency because then we'd
4 like to be able to start with all the information that
5 people think is out there that's relevant to tackle the
6 risk assessment and the effects of (inaudible) because it
7 will be more efficient and more effective to start with
8 the information that's out there rather than try to play
9 catchup over time.

10 So, for example, the IMS information, when that
11 docket's opening, it would be a perfect time for that
12 information to be made available. So, why don't I turn
13 it back over to Arty. But we can come back around on
14 those concepts again when we wrap up.

15 MS. WILLIAMS: Thanks. Finally, in terms of the
16 baseline and species specific assessments, one of the
17 things that we have agreed to do and have been
18 consistently doing, and also will be doing with these --
19 I don't know if we used the term this morning, the
20 snapshot documents or reregistration within the docket --
21 is to provide a really clear explanation of why we have
22 rejected certain public literature in terms of not using

1 it, but also just basically providing more transparency
2 and better explanation of any gaps in our assessments.

3 In addition to all of those for the species
4 specific assessments, there were a couple other
5 enhancements. One is that the action area, which is the
6 area that we believe there could be effects to a listed
7 species, years ago, included only an area where direct
8 effects may occur. The action area now is including the
9 area where both direct and indirect effects could occur.

10 Additionally, in terms of critical habitat, we
11 traditionally have looked at potential effects to
12 critical habitat as a habitat. But in the listings that
13 the services do, they actually publish Federal Register
14 notices to designate critical habitats. They also
15 indicate in there something called principle constituent
16 elements, which are very specific aspects of the
17 geographic habitat that they believe are critical to the
18 survival of the species.

19 So, for example, if you were talking about an
20 aquatic species that required water with a certain flow
21 rate through shallow streams, that would be a principal
22 constituent element, would that be that flow rate of the

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1 stream.

2 So, in addition to the geography, the critical
3 habitat, we're also evaluating whether the pesticide has
4 any potential implications to each of these principal
5 constituent elements that kind of make up why that
6 habitat is critical to the species. And, again, I think
7 I just mentioned this, but all of our assessments are
8 containing more robust explanations of any uncertainties
9 in our assessments, so the public can see where we've
10 made conclusions, whether those are based on the actual
11 data that we have or whether they're based on assumptions
12 that we've been forced to make because data don't exist
13 or methodologies don't exist.

14 In terms of applying the processes and
15 methodologies in the overview document, since it was
16 issued in, I think it was early 2004, we've begun to
17 incorporate that into our assessments. Assessments that
18 were started long before then, but issued after that
19 time, you probably would not see application of the
20 methodology in the overview documents. But those that
21 were started around that time, around the first of 2004,
22 we began to incorporate these methodologies, and we've

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1 used them in those assessments that we've done for both
2 registration and reregistration.

3 But I do want to point out that probably what
4 you're going to see most of right now is that baseline
5 part of the assessment. I said there were two parts, the
6 baseline and the species specific. For registration and
7 reregistration chemicals that were started around that
8 time and issued in the last year, year and a half, you
9 probably are likely to see work up to the species
10 specific assessment, maybe a little bit into that, but
11 not completely through that whole process.

12 So, a lot of those will say, here's a taxa
13 (phonetic) that's of concern, we've identified the
14 species that are in that taxa that may be affected, but
15 the assessment stops at that point. Those should, also,
16 articulate that we recognize we have further work to do
17 and (inaudible) to do that work.

18 We've also applied the principles and
19 methodology in the overview document in terms of a couple
20 of informal consultations that we're engaged in right now
21 with the Fish and Wildlife Service and National Marine
22 Fishery Service. These are on the chemicals, Aldicarb,

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1 Carbofuran and nine active ingredients, which I can never
2 remember all the names of, used in rodenticides. We have
3 -- we did some time ago write to the services requesting
4 an informal consultation on each of these chemicals for
5 purposes of technical assistance and they are actually
6 part of our work group to look at these chemicals and
7 help us assess the potential impacts of these.

8 And then, finally, the overview document is
9 being applied to litigation driven assessments as well.

10 I want to kind of just point out the litigation
11 driven assessments that we're working on currently.
12 There are currently 21 species we're assessing the
13 effects -- this is a bad sentence -- to of atrazine. Let
14 me try that again. We are assessing atrazine as it has
15 potential effects to 21 listed species in three, four
16 different geographic areas of the country. We've
17 completed the first area, which was the Chesapeake Bay
18 and the Alabama River, and that assessment is online.
19 And, again, I point that out because if you wanted to see
20 one of these that completely goes through the endangered
21 species specific process, those are some good models to
22 look at.

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1 We also are applying the principles and
2 methodologies of the overview document to the review of
3 atrazine, metolachlor, simazine, carbaryl, diazinon and
4 prometon relative to their potential effects to a species
5 down in Texas, the Barton Springs salamander.

6 We are beginning the process of reviewing the
7 potential effects to the California red-legged frog from
8 the use of products containing any of 66 pesticide active
9 ingredients. And for those chemicals that we assess
10 relative to Pacific Northwest salmonids several years ago
11 and for which we're currently in consultation. During
12 that consultation process, the services and we are
13 discussing how to incorporate some of the newer
14 methodology and the new way of viewing assessments into
15 those consultations. I think we have one of those lines
16 as well for metolachlor.

17 Outside the overview document, some other
18 program enhancements that we've been working on are
19 listed there on this slide, and let me just explain what
20 a couple of those are. With our Office of Environmental
21 Information, we are working on a project to establish a
22 geospatial data warehouse which is a fancy name for a

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1 central location where we can store and access not only
2 GIS, geographic information system data layers that we
3 develop during our assessments, but that other offices in
4 the agency may be developing for other purposes, that are
5 available nationwide.

6 So, for example, it would be a place where if we
7 worked with the services for them to identify for us on a
8 map in GIS the critical habitat of the species. We could
9 store this information in this geospatial data warehouse,
10 and if we needed to access it, it would be readily
11 available in a form that we can use and overlay with
12 other information, such as where water bodies are, where
13 there might be environments that are particularly
14 sensitive to the pesticide, where groups are grown or use
15 patterns occur, and it will tremendously, as this
16 warehouse gets populated, heat up our ability to kind of
17 do a coarse assessment of where all the geographic things
18 meet up and causes the problems. So, it's going to be a
19 pretty big time saver for us once it's established and
20 populated.

21 We're also working on some data extraction tools
22 which are tools that allow our modelers to access

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1 information that they currently access, but in a way that
2 when they access it, they then don't have to do anything
3 to it before they can plug it into the model. So, again,
4 it's a time saving tool for us.

5 We're working on some automated watershed
6 delineation work which includes the ability to
7 automatically delineate on a map not only watersheds but
8 -- I don't know if this is the right term -- but sub-
9 watersheds, kind of little watersheds within watersheds.

10 We are building internal to the Office of
11 Pesticide Programs, what we're calling an endangered
12 species information repository. When I mentioned that we
13 were currently looking at aldicarb and carbofuran and
14 eight rodenticides, one of the kind of common things
15 among all of those pesticides, if there is one, is that
16 they have very broad use geographically, and as a result,
17 have the potential to intersect geographically with a lot
18 of different species. And as we go through those and get
19 information on these species, we want some way to capture
20 that information so that when another chemical is being
21 assessed that has the potential to impact that species,
22 we don't have to go out and do that species research

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1 again.

2 We've been discussing with the services whether
3 they have databases already like this because we
4 certainly don't want to duplicate, but it doesn't appear
5 that things like GIS layers for critical habitat or
6 species location or things like what the breathing cycle
7 is of species are captured nationally anywhere, but held
8 in regional and field offices. So, we're in a position
9 where we're having to communicate with those field level
10 people to get this information and, again, once we do
11 that, we want to capture it somewhere so that the next
12 time we have to look at that species, we don't have to
13 recreate that whole process again.

14 And then, finally, we are putting in place
15 internal tracking systems which may not seem like a
16 program enhancement, but from our perspective it is. If
17 we've looked at a pesticide and then, for some reason,
18 two years from now we have to touch that pesticide again
19 for some reason, we want to know -- we want to be able to
20 readily see what it is we've assessed so that, again, we
21 don't recreate any information that we don't need to.
22 Maybe that a new use comes online and this system will

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1 allow us to go back and say, well, the geography of this
2 use precisely overlaps with the geography we looked at
3 for this other crop, you know, two years ago. So, we've
4 got a base to start from. We don't have to start from
5 scratch.

6 I want to talk just a second about the
7 counterpart regulations. I think all of you know that
8 the services issued counterpart regulations relative to
9 our regulatory program for pesticides, and these
10 regulations contain optional alternative consultation
11 processes for us to use and use of those processes was
12 dependent on two factors. The first is that effect
13 determinations made by our office to determine whether or
14 not a particular pesticide has the potential to harm a
15 species had to be signed off on or done by people who had
16 been trained by the services to do this and certified
17 able to do this.

18 The second factor is that risk assessments being
19 conducted had to be conducted consistent with the
20 overview document. This regulation, I think, had the
21 potential again to save a lot of resources and time and
22 actually in the long run put us in a position -- us, the

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1 Federal Government -- of being able to provide protection
2 to listed species sooner because we didn't get ourselves
3 hung up on multiple processes.

4 But this regulation was challenged some time
5 ago. I don't recall the year of the challenge, but the
6 case was just decided recently, and the judge in this
7 case determined that there were some flaws in that
8 regulation. That court decision has been appealed by
9 both the Federal Government and my understanding is the
10 industry interveners in that case as well.

11 I want to explain a little bit what the
12 implications of all of this are. Under the standard
13 service regulations, the regulations that have been in
14 place for years, if an agency -- or if we found that
15 there was no effect to a listed species, we were done, we
16 didn't have to do any further assessment. If we found
17 that the pesticide was not likely to adversely affect the
18 species, we had to engage in informal consultation, which
19 is consultation where we ask the services to concur or
20 non-concur with that determination.

21 If they non-concur or if we determine that the
22 pesticide was likely to adversely affect the species, we

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1 had to engage them in formal consultation. The result of
2 that process is the issuance of a biological opinion by
3 them that indicates their assessment of the potential
4 impact of the pesticide to the species and recommends
5 procedures to reduce the potential risks.

6 Finally, under the standard consultation
7 regulations, Section 18s are viewed as any other agency
8 action. It had to go through all of these consultation
9 processes as appropriate.

10 Under the counterpart regulations, the first
11 change that was made was rather than engaging in informal
12 consultation for not likely to adversely affect
13 determinations, those regulations said that if we
14 conducted our assessments based on those two criteria I
15 mentioned, that no further consultation was needed on
16 these actions. We could just move forward with any risk
17 mitigation that was appropriate.

18 The second big change that the consultation
19 counterpart regulations made was that it indicated that
20 Section 18s under our statute could be viewed as
21 emergency for purposes of consultation under the
22 Endangered Species Act, which would put us in a position

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1 to actually allow a Section 18 use to go forward and
2 consult as soon after that as possible rather than doing
3 all the consultation work prior to the 18.

4 The court decision basically took away our
5 ability to forego further consultation for not likely to
6 adversely affect. And in terms of Section 18s, it said
7 that Section 18s sometimes could be viewed as emergencies
8 under the ESA if they met the very specific description
9 of emergencies under the ESA. So, basically for like
10 public health emergencies, those would still be
11 permissible.

12 I guess I wanted to show you that because really
13 it kind of puts us almost where we were 10 years ago when
14 we were trying to implement this program save for being
15 able to use the emergency consultation provision
16 occasionally for Section 18s. So, there was a couple of
17 years to kind of come full circle.

18 The final area I want to touch on is field
19 implementation. Everything we've been talking about is
20 kind of implementation of our program, and by field
21 implementation, I mean the part of the program that's the
22 process of effecting change actually out in the real

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1 world among pesticide users.

2 There are four components of field
3 implementation that we kind of keep track of at OPP and
4 those are education, creation, execution -- which is a
5 really bad term to use, but execution, and enforcement.
6 I want to make it clear that field implementation takes
7 place once we've done our assessment, we've decided there
8 needs to be mitigation and we've identified that
9 mitigation. There are several opportunities, and I hope
10 Debbie mentioned some of those this morning, during
11 registration review where people have the opportunity to
12 have input into the mitigation and how we've identified
13 the risks. This is after that. So, you're not going to
14 see a lot of public opportunity in this process.

15 In terms of education and training, we're
16 starting that process by holding a workshop actually next
17 week, Wednesday and Thursday. It's a regulatory partners
18 workshop. It's not a public workshop. And it's to work
19 with our state and regional regulatory partners to
20 develop information that they can use and to carry on
21 training for applicators -- certified applicators and the
22 public.

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1 We're going to be looking at four specific areas
2 at this workshop. The first is, again, kind of basic
3 educational and outreach materials. We've got some fact
4 sheets we want them to help us finalize, a canned
5 PowerPoint presentation that we're hoping to finish
6 development of at this workshop that they can use then to
7 go educate other people about the program.

8 The second area we're going to be focusing on at
9 this workshop is Section 18 guidance. For Section 18,
10 states have been requested to demonstrate -- let me see
11 if I can get this right -- demonstrate that they have
12 made a credible effort to identify and address listed
13 species issues when they submit their Section 18
14 requests. There's not a real good description of what
15 that means at this point. So, one of the things that
16 we're going to do is share with them a draft of what we
17 believe it ought to mean, see what implications that has
18 for them, see if we can even make it stronger, if that's
19 appropriate, and hopefully come out of this workshop with
20 a really good draft of what that credible effort is.

21 We also are going to be demonstrating for them
22 the web-based system where the public can access

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1 bulletins. We'll be showing them how we are going to be
2 creating bulletins and how this system will be of value
3 to them in enforcement. And then we're also going to be
4 discussing enforcement, specifically what their role is,
5 what the Office of Enforcement Compliance expectations
6 are of them enforcing these limitations once they get out
7 in the field.

8 This, again, is kind of our first step to
9 educate them so they can start educating and training
10 other people, but we're certainly open to other
11 opportunities to work not only with our regulatory
12 partners, but the public in general, if that's
13 appropriate, to provide further information to the
14 public.

15 The second area, creation, this is actually the
16 creation of the bulletins which will articulate the
17 limitations that we find necessary to protect the
18 species. One of the things that we have done in our
19 computer system that houses the bulletins is create kind
20 of a back door to it that only EPA will be able to
21 access, and we will be able to access it actually to
22 create these bulletins. This back door has a lot of

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1 information in it, including things like county lists,
2 species lists, base maps, and what it allows us to do is
3 basically create bulletins in real time. A lot of the
4 elements from standardized pull-down menus to minimize
5 errors, because I know every time I even type my name, I
6 type it wrong. So, it will provide a really good way to
7 ensure that we're being consistent in naming species and
8 how we're describing chemicals and it will provide for
9 real-time updates of the information.

10 The bulletins themselves employ some really nice
11 cartography, which we think makes them a lot easier to
12 understand than our attempts of the past. They will be
13 very geographically specific and they'll contain text, as
14 well as explain what the user has to do. This is one
15 area where there will be some input after the decision is
16 made that a limitation is needed. But, again, it's not
17 input to that decision or to the specific limitation, but
18 rather a review by the state, who can engage others if
19 they choose, to make sure we haven't messed up their
20 maps, to make sure that we've articulated the limitation
21 in a way that's appropriate for the people in that
22 locality, so we're not telling Virginians to identify

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1 their township range and section because Virginians don't
2 know what that means.

3 And, finally -- no, not finally, next to
4 finally, execution of the bulletins. The way that these
5 bulletins become effective is that the product of the
6 label will contain a generic statement -- the label of
7 the product will contain a generic statement that tells
8 the users in addition to what's on the label, they have
9 to comply with the information in the bulletin. This
10 makes the bulletin information enforceable and
11 administers provisions of FIFRA.

12 The bulletins will be accessible in two ways.
13 The primary way we hope will be from this website that
14 we're going to be launching in the near future. But we
15 also will be providing a toll-free number that pesticide
16 users or the public can call to obtain a bulletin if they
17 don't have web access. We're also going to be providing
18 an online tutorial that walks a potential user of the
19 bulletin through every aspect of use of it, again, as
20 part of our training of the public.

21 Now, finally, enforcement. I did mention that
22 the bulletins -- the provisions in the bulletins are

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1 enforceable under the misuse provisions of FIFRA.
2 Because the bulletin is referenced on the label it
3 essentially becomes like labeling and that is
4 enforceable.

5 The bulletin system also is going to be
6 providing access to our state regional regulatory
7 partners to carry out enforcement activities. They'll
8 have access through some sort of password-protected thing
9 and what this will allow them to do is access bulletins
10 that may no longer be valid, but for which they need to
11 see what the valid bulletin was time wise for an
12 enforcement action they may be taking where the action
13 occurred in the past.

14 So, we think that success in launching this
15 program and getting it out in the field can be measured
16 in a couple of ways and these are the ways that
17 internally we're going to determine whether or not we've
18 been successful, whether we have the ability to come into
19 full compliance with the ESA while continuing to make
20 timely and scientifically sound regulatory decisions; the
21 ability to work with stakeholders and partners throughout
22 this process and make sure we're using best available

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1 data and to make sure we're adequately characterizing the
2 potential risks to listed species; to minimize the scope
3 of limitations where we can while still providing the
4 protection that the ESA calls for; and finally, to make
5 an effective -- and it doesn't say it here -- but I
6 consider that also to be easy transition for the
7 pesticide user community from their current way of doing
8 business to this business of having to look at bulletins
9 to determine how to use the pesticide.

10 And with that, I will stop talking. Thank you
11 very much for your attention.

12 MR. JONES: Questions, if anyone has comments?
13 Caroline?

14 CAROLINE: Yeah, on the slides, on page 12,
15 there's a bullet where you talk about atrazine,
16 metolachlor, simazine, carbaryl, et cetera, in
17 relationship to the salamander in Barton Springs.

18 MS. WILLIAMS: Yes.

19 CAROLINE: So, how do you deal with cumulative
20 impacts in this context?

21 MS. WILLIAMS: We are not trying, at this point,
22 to look at cumulative effects of pesticides in the

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1 environment for listed species or anything else. Maybe
2 Steve can speak to this better, but my sense is, you
3 know, we recently have figured out and are pursuing
4 looking at cumulative effects in terms of human health.
5 I don't believe that we have the methodology to do that
6 consistently for environmental cumulative effects in the
7 sense that you're talking about, and I think that's the
8 sense you're talking about, multiple pesticides in one
9 place.

10 CAROLINE: Yeah.

11 MS. WILLIAMS: The Endangered Species Act does
12 say that if we determine that a pesticide is likely to
13 adversely affect a species, we do have to look at
14 cumulative effects.

15 CAROLINE: Um-hum.

16 MS. WILLIAMS: But the definition of that in the
17 ESA is very different from the traditional definition
18 that we think of as cumulative effects. What ESA means
19 by that is we have to look at the effects of our actions,
20 which is that pesticide registration, in combination with
21 other actions in that area that are not ours -- so, for
22 example, if somebody were -- when we're doing our

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1 assessment, we'd have to look on the ground and see,
2 okay, somebody's building a parkway through here.
3 They're damming this river, the forest is timbering next
4 year. What's the cumulative effect on the species of the
5 potential insult from the pesticide, plus the potential
6 insult from all of these other non-federal activities
7 going on? That's how the ESA defines cumulative effects,
8 and we will be looking at that if we have a likely to
9 adversely affect.

10 CAROLINE: Interesting, thanks.

11 MR. BRADBURY: Just to follow up a little bit on
12 the other way we all use cumulative more in the context
13 of the human health risk assessments and looking at
14 mixtures of chemicals, that was an area of quite intense
15 and good discussion with the services as we developed the
16 overview document and we all thought through, how do you
17 assess the mixtures of chemicals on aquatic life or
18 wildlife? And that topic and a few other topics, we all
19 agreed that sort of the state of the science is such that
20 we don't really have an accepted scientific peer-reviewed
21 methodology to tackle that. So, let's tackle aspects of
22 the problem, let's make sure that we get the chemical

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1 specific assessment nailed down properly, and if we get
2 into the situation that Arty described with the other
3 definition, we'll deal with that.

4 In the meantime, we're working with the services
5 to establish a joint sort of effort to do research to try
6 to build those tools that we'll all be using and to try
7 to tackle some of these tough questions.

8 MR. JONES: Thanks. I was so engaged listening
9 to the answer, I forgot my duty as moderator and I didn't
10 see in which order the cards went up. So, I'm just going
11 to start with Ray and go around this way. If subsequent
12 cards come up, I'll take them after that. Sorry about
13 that.

14 MR. McALLISTER: My notes are kind of
15 disjointed, so I hope I find all my questions. On the
16 slide that discussed the explanation of rejection of
17 literature, do you have clearly established criteria, is
18 there an SOP involved in that acceptance or rejection of
19 the literature?

20 MS. WILLIAMS: No.

21 MR. BRADBURY: There's, again, two aspects for
22 the word "rejection" in that slide. One of the important

1 parts of the Endangered Species Act goal is to collect
2 best available information and sort of defining available
3 information and defining best available through the two-
4 step process. The first process is have you documented
5 that you've reasonably captured all the information that
6 could be out there and then what's the process you went
7 through to zero in on the data you think is really
8 relevant and appropriate for your effects determination
9 or risk assessment?

10 One of the facets of using the ECOTOX search
11 engine that we worked out with the services was to use
12 what ORD calls a rejection group. In other words, if
13 they look at a study and it's not clear what the dose was
14 in the study, it's not clear how the study was actually
15 done, they don't code it up and put it on the website for
16 the public to look at. But they do keep track that they
17 captured that paper in their literature search and they
18 document why it wasn't put on the website.

19 So, in that context, we're ensuring that in the
20 appendices of our effects determinations that we
21 acknowledge that that paper existed and here's the
22 rationale why we didn't use it as part of the best

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1 available information to move forward. So, that's one
2 aspect of the rejection term, ensuring that the service
3 is understood, that everything that the search engine
4 picked up we were aware of and what was the rationale for
5 not even bringing it into the next step, I think what
6 you're getting at, is what if there's a study and they've
7 got some (inaudible) using some sort of (inaudible). How
8 do you decide if that data is going to be used in a
9 quantitative or qualitative fashion?

10 I think it's fair to say that any data that
11 makes it through that first (inaudible) coarse rejection
12 tool, that it's pretty unlikely -- it's very likely we're
13 going to qualitatively try to bring together the
14 information that we've got. But one of the first filters
15 we're doing is taking a look at the effects information
16 and maybe in a peer reviewed journal article and
17 comparing that to the information that would be in the
18 registrant's submitted data. If the registrant's
19 submitted data indicates that the chemical may be more
20 potent than what's peer reviewed, public literature is
21 saying, they'll move with the registrant in that case or
22 they may qualitatively describe this other body of

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1 information or quantitative assessment with a focus on
2 the registrant's data.

3 Now, if there's situations where there's open
4 literature, which suggests that (inaudible) are maybe
5 more potent than what was suggested with the registrant's
6 data, then we're going to be going through some of the
7 same basic kind of aspects that you go through in
8 reviewing any high quality (inaudible) going back to
9 ASTM, American Standards for Testing Materials were at
10 the EPA and all the scientific communities worked on
11 them, what are the attributes of a high quality wildlife
12 study or aquatic toxicology and then you go to the peer-
13 reviewed literature and the protocols and procedures that
14 are used, which are pretty similar to what we use when we
15 take a look at the registrant's submitted data and
16 evaluate and test the quality of the study.

17 And we're working through some SOPs now and
18 trying to get that streamlined and documented.

19 MR. McALLISTER: In the sources of data and the
20 approaches that you've described, I didn't hear you
21 mention -- and I may have overlooked it -- the large body
22 of data that should be available on endangered species

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1 (inaudible) from Fish and Wildlife Service, National
2 Marine Fisheries Service. Do you have access to all of
3 this? Is there any problems in utilizing it?

4 MS. WILLIAMS: That's a real good question. I
5 didn't really touch on that. There's two -- let me talk
6 about the two kinds of information, if I could, and one
7 will be very, very quick, and that is where the services
8 or the National Marine Fisheries Service, for example,
9 might actually be doing research or a field study of some
10 sort and they publish that. That actually would be
11 captured in the ECOTOX because it's now public
12 literature. But in terms of simply information about the
13 species, you know, where the species is, how it behaves,
14 what it eats, when it eats, whether it's dependent on
15 some other species for its survival, you know, whether it
16 has one food source, all of that kind of information that
17 we look at to make our determination more spatially and
18 temporally explicit, in many cases, is available from the
19 services.

20 In new cases that we've worked on so far, is
21 that easily accessible? Again, this is one of the areas
22 where there doesn't seem to be a database of information

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1 that we can access, but instead, we find ourselves going
2 back and reading through, you know, ten Federal Register
3 notices to find out what we can find out about the
4 species. So, there's a lot of information there. It's
5 accessible, but not from our need in a very user-friendly
6 manner.

7 There's some information that we've tried to get
8 on a couple of things that nobody has, not even the
9 services. For example, one of the things that was key to
10 an assessment we were doing was whether some particular
11 plant species were wind-pollinated or insect-pollinated,
12 and nobody knows. The world experts about these plants
13 don't know how they're pollinated. So, I guess the
14 answer to your question is yes and no and yes and no.

15 Did you want to add to that, Steve?

16 MR. BRADBURY: I was going to say part of the
17 work with aldicarb and carbofuran with the services
18 helping explore how they're storing and capturing
19 information that will be useful or beneficial to all the
20 parties.

21 MR. McALLISTER: One last question here. You
22 showed the one slide with several assessments you've done

1 as the litigation driven assessments, and from the
2 outsiders looking in, it appears that has completely
3 dominated your efforts in endangered species assessment.
4 How are you going to transition from the litigation
5 dominated situations to being able to do nationwide
6 endangered species assessment and registration review?
7 You don't have a court telling you do this chemical in
8 these counties or these two species, but you've got
9 potentially an entire nation to look at for a dozen or
10 more uses and all of the species that may be out there.

11 MR. BRADBURY: Correct. That is the challenge.
12 And some of the tools and technology that Arty described
13 is part of the solution. Part of the solution is being
14 able to access information sufficiently and being
15 confident with the information that's collected. And I
16 think our experience thus far -- not to minimize the
17 tough risk assessment challenges about a riparian zone
18 and an effect on salmonids are scientifically
19 challenging, but I'd say a pretty hefty amount of our
20 time right now is spent collecting information. Once we
21 have the information, we can start to very quickly zoom
22 in on which parts of the country one needs to focus on.

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1 Right now, the big challenge is getting
2 information efficiently and effectively. So, my
3 responsibility, to get back to the first part of your
4 question, is to make sure we meet our quotas and
5 deadlines and with timely registration review, and we'll
6 do it. That's what we're setting ourselves to accomplish
7 (inaudible).

8 MR. McALLISTER: I found one more. On the
9 county bulletin system, we want to really applaud the
10 innovation that that demonstrates. I think it has a lot
11 of potential. We're looking forward to seeing how
12 quickly you can get enforceable bulletins online. I'd
13 just suggest that that approach may be applicable to
14 other types of labeling information and regulation.

15 MR. JONES: Carol?

16 MS. RAMSAY: Arty can probably guess what my
17 question is. She's heard a few times before. What are
18 you looking at for time lines for implementation because
19 I'm assuming that if you have a training session next
20 week trying to work on some of the training materials,
21 you're -- I'll let you answer that one first and then
22 I'll follow up.

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1 MS. WILLIAMS: Time lines for field
2 implementation, which is --

3 MS. RAMSAY: Training implementation
4 (inaudible).

5 MS. WILLIAMS: -- actually putting enforceable
6 bulletins out on the street is really dependent on our
7 time line for assessing chemicals. We don't have like 59
8 of them ready to go. When we complete an assessment that
9 needs geographically specific use limitations, we'll
10 develop the bulletin and put it online. But because it's
11 kind of a new approach for pesticide users and the
12 bulletin system will be up and running soon and people
13 can go and access it and look at the tutorial when it's
14 up and running, even if there are no limitations right
15 off the bat.

16 We want to start the training now so that when
17 people are talking to pesticide growers maybe in
18 certification training or something like that, they can
19 tell them about the website, you know, explain the
20 program to them, tell them there's a tutorial, and then
21 when we start getting this out in the field, people will
22 be familiar with it. There won't be like mayhem and

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1 panic in the streets.

2 MS. RAMSAY: I guess my follow-up on that is
3 realizing that right now it's November of the year and
4 for most of the northern tier states, our training
5 agendas have already been set, they've already been
6 approved by the State Departments of Agriculture for
7 credit, and so, to bring new topics into those would be
8 awkward for anything that was going to take place
9 November, December, January and February, which are going
10 to be your horticultural meetings, which are going to be
11 your vegetable seed meetings, the lead association
12 meeting just took place last week, the forestry meetings
13 are taking place this week.

14 So, the window of opportunity for us to put
15 those into the normal training system for 2007,
16 unfortunately, is almost -- is behind us.

17 MS. WILLIAMS: Um-hum.

18 MS. RAMSAY: And so, I think, if we're looking
19 at some sort of implementation that's going to occur in
20 2007, when we're going to try to get this out, we're
21 going to have to look at some novel techniques to get it
22 out to the rangeland communities, to the ranch

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1 communities, to the user communities, the turf and
2 ornamental. So, I think EPA, when they put together the
3 training module, need to look at some train-the-trainer
4 multipliers, work with APSE (phonetic), for example, to
5 get the educators trained to where they can bring in
6 county agents, to where people don't actually come to a
7 room, but you can do a fair amount of internet
8 communication type training, but we need that soon
9 enough.

10 And then you also probably need to look at
11 popular articles and farm journals and things like that
12 for getting it out because chances are that this is going
13 to start unfolding next spring when (inaudible) is not on
14 the ground and people are in the field and they're not
15 going to get it until the following year.

16 MS. WILLIAMS: So noted, and absolutely. We
17 actually have a couple of extension coordinators who are
18 going to be at the partners workshop because it is so
19 heavily focused on training materials. And, again, the
20 presentation that we're putting together probably would
21 be a good basis from which to start discussions with APSE
22 specifically for like certified applicator training, and

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1 we'd be happy to engage APSE in a discussion like that
2 and how we need to move this out to make sure it's
3 effective.

4 But I understand your concerns. I appreciate
5 your bringing them to my attention.

6 MR. JONES: John Schell and then Beth and Gary.

7 DR. SCHELL: First of all, Steve, I want to
8 compliment you on acknowledging that there are no good
9 ways to do cumulative risk assessments yet. We really
10 need to do single chemical risk assessments well before
11 we start branching off into the really complex cumulative
12 risks. We're struggling with that on the human health
13 side as well and it's very difficult to do. So, I'm glad
14 you're, right now, trying to get the process worked out
15 for the endangered species using a single chemical
16 approach.

17 My question is going back to sort of the earlier
18 one and it's the data that you're using, from what I
19 understand, it's primarily the published scientific
20 literature that's posted online that you would use, and
21 there's also additional reports. But how do you know --
22 if it is additional reports, how do you know that you're

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1 capturing all of the information that other federal
2 agencies, state agencies and NGOs are reporting and even
3 things like other risk assessments, like eco risk
4 assessments that have been done? Is there a way of going
5 through that? And if you do, how do you do the peer
6 review on that, on all of those varied reports coming
7 from a whole bunch of different sources?

8 MR. BRADBURY: Okay, so let me go through --

9 DR. SCHELL: Yeah, I just -- you don't have to
10 worry about --

11 MR. BRADBURY: I'll get -- I just want to start
12 with -- the first comment is that, you know, the core set
13 of information that we're going to be looking at is the
14 information submitted by the registrant through the pest
15 guidelines and just related to Part 158 information. So,
16 that's sort -- that's the core, that's the kernel of
17 information that we first get our heads around.

18 The Endangered Species Act is saying, good, use
19 that information, by all means, that's part of the best
20 available information. But let's make sure that we've
21 done a reasonable effort to see if there's anything else
22 out there that may pertain to the way you're looking at

1 or influence the way you're looking at the potential
2 risks of the compounds and using the search engine to
3 take a look at what else is available in addition to what
4 the registrants have submitted.

5 Now, the search engine itself, and it's on the
6 website, www.epa.gov/ecotox, if we go there you can see
7 in gory detail all the SOPs and all the (inaudible)
8 processes used in that search engine. And some of your
9 questions are related to the strategy that that search
10 engine uses. It not only is accessing papers published
11 in scientific journals, it's also accessing federal
12 reports, the gray literature, if you will. So, it's
13 scouring all the gray literature in terms of federal
14 reports, in terms of state reports. It's also -- we're
15 also (inaudible) the EPA with OECD, so we're accessing
16 information that's being published elsewhere in the world
17 in many OECD member countries that put their data into
18 this database. So, we also have (inaudible) for that
19 kind of information.

20 Part of their search strategy also includes
21 literature review articles or the dossiers on a risk
22 assessment for a chemical or a group of chemicals.

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1 Now, the database, itself, doesn't store
2 secondary information. It will only code and store
3 primary information. But it uses literature reviews, it
4 uses risk assessments and other publications, and goes to
5 those bibliographic sections and double checks to see if
6 the computer activity that's been going through the
7 literature has missed anything that may be in some of
8 those citations.

9 So, in working with the services and then
10 playing around with some of the techniques they use,
11 everyone was comfortable that this approach is capturing
12 best available information. The Endangered Species Act
13 doesn't say that you haven't gotten best available
14 information if there's one paper that slips through your
15 fingers. Its point is, have you made a reasonable effort
16 to try to capture the preponderance of information. And
17 when we do registration review and open the dockets and
18 say here's what we know, here's the information that
19 we've seen through this ECOTOX search engine, is there
20 anything out there that we may have missed? And that
21 will be one more way we can just make sure that they're
22 aware of everything that's out there.

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1 MR. JONES: Beth?

2 DR. CARROLL: I'd like to thank you for all the
3 work you've done. It's a tremendous amount of change
4 since 2004. And I'd like to follow up on Ray's question
5 about the information that the services have. I'm still
6 unclear -- so, you have this information and it's not
7 user-friendly. Is there anything being done about that?
8 Is that where your data extraction tools come in or is
9 that something the services need to be doing for you?

10 MS. WILLIAMS: The data extraction tool is more
11 a tool, for example, to go into 30 years of national
12 weather data and pluck out the right data for a location
13 and put it in the right format for us to use in a model.
14 So, starting at the back of your question, no, that's not
15 what that's for.

16 We are, again, in our own work, trying to
17 capture information as we get it and put it in a way that
18 we can then later access and will be user-friendly in the
19 endangered species information repository that I
20 mentioned. We have begun the discussion with the
21 services about tools that are available at the services
22 and at EPA that we might be able to build on and gain

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1 some efficiency from. But the fact of the matter is, to
2 the best of my knowledge, the kinds of information that
3 we need to look at just because of the different
4 approaches of the agency and different focuses is not
5 kept on a national level at the services, but rather out
6 in field offices where the species actually exist.

7 I don't know if there's a move to consolidate
8 all that at this point. I know there is an effort
9 underway to map critical habitat, which will be of help
10 to us on a nationwide basis. But in terms of other
11 efforts underway at the services right now, I'm not
12 familiar with any at this point.

13 MR. BRADBURY: And a quick follow-up, in
14 developing the overview document and working through the
15 methodologies, we talk about cumulative effects in the
16 context of mixtures of chemicals as a future need,
17 something to work on. This question was also identified
18 as a -- Arty said a tool. That future activity where the
19 services are realizing that's something they're trying to
20 work on to help their efficiencies as well so they have a
21 knowledge base that they can access with this
22 information.

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1 So, we're beginning to have a dialogue on how we
2 can work together to create that kind of infrastructure.

3 DR. CARROLL: I think it goes back to Jim's
4 question as to how can PPDC be engaged in this process
5 and maybe this is something where we could have some
6 impact on moving the services or whoever needs to be
7 doing this to get the information pulled together so it's
8 in a usable form.

9 And I just have a follow-up. I'm still a little
10 confused on the IMS data. I'm actually a little
11 concerned that it's not in here. Are you going to use
12 the IMS data prior to opening the docket? It sounded to
13 me like, Steve, when you answered that before, that would
14 be something that would be submitted after the docket was
15 opened.

16 MR. BRADBURY: No, I would -- in my opinion, if
17 you wanted it provided before the docket opened, as you
18 see the schedule, that would be fine. As we talked about
19 with the water quality monitoring data yesterday, our
20 goal would be to the extent possible to get that
21 information. If the states are willing -- are able to
22 provide it before the docket opens, then that can be

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1 built into the problem formulation that we'd be doing and
2 making that available to the public for comment. So, in
3 that context, in theory, it would be nice to see whatever
4 information -- IMS is an information management system
5 which some of the registrants are putting together to
6 better understand co-location of crops, where the
7 pesticides will be used and where the habitat of a
8 species may be.

9 Yeah, I think to the extent some of that
10 information can be available before the docket opens,
11 that could help focus the problem formulation and help
12 with other public comments and input (inaudible) helpful.

13 MS. WILLIAMS: Could I add to that? You still
14 look like you have a puzzled look on your face. Let me
15 add to that something.

16 DR. CARROLL: Sure.

17 MS. WILLIAMS: One -- for those of you who don't
18 know, this information management system contains
19 information from the ag census in terms of location of
20 where crops are and ultimately will provide access to --
21 what's it called -- nature serve information on where
22 species are actually located on the ground, not in terms

1 of county or sub-county, but actual location. Like I saw
2 it here on the corner of this table.

3 Once all of that information is populated into
4 the system, we're viewing the system as one where we
5 could do kind of a second screen. Our first screen is,
6 is the county and the crop anywhere near each other?
7 This -- I mean, the county and the species -- the crop
8 and the species anywhere near each other. What this
9 would allow us to do is do kind of a second screen which
10 is to say, okay, with this refined species information,
11 is the species anywhere near where the crop is grown, not
12 at a county scale, but at a much finer scale.

13 And we intend to employ that internally in our
14 assessment process, but we aren't doing that currently
15 because our understanding is that the entire nature serve
16 data set is not integrated into the IMS yet. I think
17 there's a meeting of the group that's working on that in
18 early December and we'll see what the status is then.
19 But once the location information is in there, we'll be
20 using it as a second screen and you will be seeing, in
21 the docket information that we put out, that we have
22 accessed that to kind of do a second level screen of

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1 where the species and the use might be.

2 DR. CARROLL: Yeah, and there's a method to my
3 madness. I'm kind of curious as to when the docket
4 opens, will you have a fair idea of what kind of DCIs
5 need to be issuing?

6 MR. JONES: Beth, that's going to be one of the
7 things that in this work group -- we think we will, but
8 we're going to sort of work with all of you through sort
9 of how we come to our conclusion and we're going to take
10 comment on it as well.

11 DR. CARROLL: Okay. And then just a couple
12 other comments. I would like to encourage you to make
13 guidance on your criteria for either acceptance or
14 rejection, whatever you want to call it, available to the
15 registrants. It's something that we really need.

16 And I would just ask the question of, since the
17 overview document has been in existence since 2004, a lot
18 of changes -- I mean, a lot of work has gone into this
19 and I wonder if it needs an update.

20 MR. BRADBURY: My opinion, no. I think it still
21 reflects --

22 MR. JONES: That's a good answer, Steve.

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1 MR. BRADBURY: I think it still reflects the
2 best available scientific methods and techniques to do
3 these kinds of risk assessments. As I mentioned, though,
4 before, we all know that science marches on and we all --
5 parts of EPA and the services want to make sure that
6 science continues to march on. So, having said that
7 doesn't mean in a different venue we aren't assertive and
8 good partners in trying to advance scientific techniques.
9 But in another version the overview document (inaudible)
10 those techniques (inaudible).

11 But I'd say in my opinion we have the best
12 available scientific methods and methodology used for the
13 procedures used here.

14 MR. JONES: Gary?

15 MR. LIBMAN: My question is on the Section 18s.
16 I may have missed some nuances there, but it seems like I
17 guess a doughnut hole. How much of a problem has that
18 been on the Section 18s? You say that the states have to
19 demonstrate that they've done some analysis and ID'ed
20 listed species and so on. But is there a federal follow-
21 up even after the Section 18 is issued and can you then
22 reverse a Section 18 decision?

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1 MS. WILLIAMS: Well, you know, Section 18 is so
2 short-lived that by the time we were done there would be
3 nothing to reverse. The use would be over with. They're
4 generally very time-limited for -- there for a season at
5 most and the applications usually take place, you know,
6 based on certain criteria in the 18. For example, it may
7 be a Section 18 for a use on an insect and the Section 18
8 request is if the insect populations reach this level,
9 we're going to need to use this, and they use it and then
10 it's over with. They don't use it again. So, in terms
11 of that, I guess the answer is no because they are so
12 short-lived.

13 Here goes my job. Technically, any 18 that we
14 issue should go through the full endangered species risk
15 assessment process. We have 50 days to look at Section
16 18. Under FIFRA, we have to balance that (inaudible).
17 So, it's a real conundrum for 18s and the thing that
18 makes it so difficult is that 50-day window. I don't
19 think there's a person in this room who could do an
20 adequate species risk assessment in 50 days.

21 So, what we're trying to do is get the states to
22 provide us with what coarse information they can provide

1 us. It may be, for example, that they're willing to
2 limit the use to a certain geography to just completely
3 avoid a species, and see what we can come up with to try
4 and protect species in the face of these agricultural
5 emergencies that we determined are true agricultural
6 emergencies.

7 I don't know if that answered your question.

8 MR. LIBMAN: No, it does answer it. The only
9 thing is that some Section 18s do last more than one
10 season, so you'd get a chance for the second year.

11 MS. WILLIAMS: (Inaudible) if they reapply.
12 Right, right, and the theory --

13 MR. JONES: The 18, itself, is for a year, but
14 it may be issued --

15 MS. WILLIAMS: Two years in a row.

16 MR. JONES: Exactly.

17 MS. WILLIAMS: Right, right. The theory behind
18 how we were going to operate when we had the ability to
19 move forward with the 18 and then consult afterwards
20 under the counterpart reg would have addressed that
21 precisely. What our intent was was to do what we could
22 for the 18. If we didn't get it completed, to continue

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1 that so that should it come back the next year, we would
2 be prepared with an assessment relative to endangered
3 species.

4 But because the counterpart regs are no longer
5 valid in that context, we are supposed to do the entire
6 assessment for any 18s issued.

7 MR. JONES: Melody? I got it under control now.
8 I got the order down.

9 DR. KAWAMOTO: Okay, thank you very much. I
10 really appreciated your recognition of the need to
11 clarify definitions and assumptions because I find that
12 that's the problem that I encounter a lot, especially
13 when you're dealing with multiple stakeholders,
14 especially diverse multiple stakeholders. I also really
15 appreciate your approach to assessing the impacts on
16 endangered species and I feel that this can really be
17 relevant to other populations and with regard to human
18 populations. I'm particularly concerned about workers.

19 What I really like about your approach is the
20 recognition of the variability related to space and time
21 within micro-environments. I think that recognizing
22 these multiple factors are really important because

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1 that's something that we recognize within the workplace
2 and we call them worksite specific micro-environments.
3 So, as Ray McAllister had said, you know, what you've
4 done, I think can be applied to some of the other areas
5 of OPP.

6 I would like to clarify one thing because I keep
7 seeing over and over again, even with worker protection,
8 that there seems to be a reliance on education and
9 training. So, my assumption was that you were really
10 meaning that the target audience would be the
11 applicators, is that true?

12 MS. WILLIAMS: For the education and training?

13 DR. KAWAMOTO: Right.

14 MS. WILLIAMS: Yes, ma'am. We, actually, for
15 this program are going to be relying on the fact that the
16 limitations are enforceable use limitations.

17 DR. KAWAMOTO: The education and training, we
18 are hopeful will put growers and pesticide users in a
19 position to understand that they have those obligations,
20 how to access the information and how to comply with it.
21 The training, yes, is targeted to pesticide users, not
22 just agriculture, however, because I will point out that

1 this program knows none of those bounds.

2 DR. KAWAMOTO: Right, right.

3 MS. WILLIAMS: If it's an outdoor pesticide and
4 it has the potential to harm a species, the user should
5 be following a bulletin if there is one.

6 DR. KAWAMOTO: Right. I do have a concern about
7 that because it seems that this puts a tremendous burden
8 on the applicator or the user which basically, in most
9 cases, means that they're workers. And there's -- I
10 guess yesterday, particularly Kevin Keaney had or
11 somebody had put up all the different expectations that
12 we have from the label and also from training, and
13 sometimes -- I mean, when you started talking about that,
14 I was thinking, well, maybe all applicators and users
15 should be Ph.D.s or something like that.

16 And so, actually, I'm going kind of beyond the
17 box in saying, has EPA been thinking about ways to
18 educate and train people before they become applicators
19 and users? And I'm really talking about K through 12
20 education. And, you know, what kinds of things should
21 children be learning while they're going through school
22 that would serve them in the future? And it's not just

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1 OPP, it's really all of EPA and actually all of
2 occupational safety and health, too. And what kind of
3 tools should they -- knowledge and tools should they have
4 before they graduate from high school, before they enter
5 the workplace that would really end up protecting our
6 environment?

7 So, I just want to open that up because I feel
8 that there is a tremendous reliance on education and
9 training of the workers and really the burden should
10 either be eased by starting them off earlier rather than
11 having to expect them to know all of this that sometimes
12 we have trouble figuring out or understanding.

13 MS. WILLIAMS: Um-hum. Just real briefly,
14 Melody, we do actually have a number of efforts underway
15 that are aimed at those sort of K through 12. Probably
16 the best example I've got are some of our IPM in school
17 programs where within a local school district, for
18 example, the goal would be for the school district to
19 actually adopt IPM techniques for pest management in all
20 of their buildings. But one of the ways you go about
21 doing that is actually through the education and
22 engagement of the kids who go to school there. So,

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1 you're both improving the quality of their school
2 environment and you're reducing costs to the school
3 district. The schools that have done this successfully
4 have documented big reductions in maintenance costs
5 associated with pest control and you're also teaching
6 kids basic, I would say, IPM skills about how to decide,
7 do you have a pest? If you do have a pest, what are your
8 choices for dealing with it and how to select approaches
9 that actually are more sustainable. So, that would be an
10 example.

11 DR. KAWAMOTO: I think that's great, but I think
12 it should be integrated more into like the sciences so
13 that they understand all of the different things that's
14 going into it, because an IPM leaves me thinking, well,
15 you know, what is the chemical that's used for
16 (inaudible) or can we have other alternatives? It's not
17 just chemicals, it's biology and impact and, you know, in
18 this case, it could be an economic impact as well.

19 MR. JONES: Thanks. Michael and then Joe.

20 MICHAEL: I want to follow up some on Carol's
21 question and that is for the time lines on these things.
22 It's my understanding from the February workshop that we

1 had six months ago, seven months ago, that individual
2 chemicals will be incorporated into this process during
3 their registration review, and that is a 15-year process.
4 So, the endangered species protection won't be completed
5 until 2022.

6 Now, there are two elements that really need to
7 be done here. One, when you do the registration review,
8 is that the time that the label is updated or is the
9 label updated prior to that? And because someone uses
10 the chemical, if there's no notification on the label,
11 they won't know where to look at the website. But
12 there's, I think, a real problem built into the website,
13 and that is, that if there are a large number of
14 chemicals that can be applied to a county, but the county
15 information is not updated for those chemicals, an
16 applicator can go to the website and look at the county
17 and find no information for restrictions of use of the
18 chemicals until like -- presumably until 2022.

19 So, you're actually -- are you, in fact,
20 reducing the protection for endangered species until this
21 whole system gets completed?

22 MS. WILLIAMS: Let me answer part of that and

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1 then I'll let Steve answer the other part of that.
2 Whether we were putting limitations in place via a
3 website or via specific information on the pesticide
4 label, which is how we have to regulate pesticides, the
5 timing I don't think would be any different. We aren't
6 going to be requiring limitations until we've done an
7 assessment for a chemical that leads us to the conclusion
8 that a limitation on use is needed and what that
9 limitation is and where it is.

10 What the bulletin system allows us to do, as
11 opposed to putting specific mitigation measures on the
12 product label is a couple of things. It allows us to
13 update that more quickly. If we review another pesticide
14 or if we get new information about the species or the
15 toxicity of the chemical, we can very quickly update the
16 web-based system.

17 The other thing it allows us to do is be far
18 more specific in terms of the limitations on the use of
19 the pesticide. I mean, frankly, pesticide labels are
20 running out of room, and if we've got a pesticide that
21 has limitations in 50 different geographic locations
22 probably the absolute outside we could do on a pesticide

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1 label would be to say this has limitations in these 50
2 areas. There's no way we could describe the habitat
3 around which it's limited. We couldn't provide
4 information about the species being protected. There
5 just isn't room. So, that's another advantage that we
6 see, anyway, of going with the web-based system.

7 So, in terms of the overall 15-year schedule, I
8 don't know if you all want to comment on that or not.

9 MR. JONES: I think that it is what it is. It's
10 like we couldn't get in to compliance with FQPA nor does
11 that (inaudible) require us to the day after the law was
12 passed, we're not going to get into compliance with ESA
13 like that. There's a thousand active ingredients. We
14 can't possibly do them all at the same time. Maybe if we
15 go 800,000 FTE we could figure that out, but we don't.

16 MICHAEL: And I do --

17 MR. JONES: And I'm going to have to move this
18 along. We are very time-constrained here.

19 MICHAEL: I just wanted to say I do appreciate
20 that you're taking specific classes first in the
21 reregistration review, carbamates, OPs and pyrethroids.
22 So, you may eliminate a lot of these problems earlier on,

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1 but still, I still see a problem with the REDs
2 (inaudible).

3 MR. JONES: Okay. There will be plenty of
4 opportunity for that kind of specific -- around specific
5 chemicals for those observations to be brought to bear.

6 Okay, Joe and Matthew and then we'll wrap this
7 session up.

8 MR. CONLON: First of all, I'd like to, on
9 behalf of the American Mosquito Control Association,
10 commend you on a job well done. It's an extraordinarily
11 difficult problem to address.

12 My question is, to what extent are these county
13 bulletins going to be usage specific? And I'm asking
14 that because, at least in mosquito control, what's done
15 with one chemical, even according to the label specs down
16 in Florida, could be totally different from what is being
17 done in red-legged frog territory in California. So, how
18 specific is that going to get?

19 MS. WILLIAMS: Let me make sure I'm
20 understanding your question, because I always get my
21 terminology, use and usage, confused. Are we talking
22 about in Florida it's used for mosquito abatement and in

1 California it's used for a different use or --

2 MR. CONLON: Negative. Both the same except the
3 parameters of application are different.

4 MS. WILLIAMS: Used differently for the same
5 use. That's a real good question. We have to regulate
6 for endangered species based on what's on the label, how
7 it could be used. So, let me just give you a
8 hypothetical.

9 For mosquito abatement, the product is
10 registered to be used at -- give me a rate. I don't even
11 know how you talk about those rates.

12 MR. CONLON: About an ounce per acre.

13 MS. WILLIAMS: An ounce per acre, okay. And
14 that's the maximum rate on the label for that, and an
15 ounce per acre we decide is a problem, we're going to
16 have to limit the use in a particular geographic area.
17 You call me up on the phone and you say, but in Florida,
18 we never use it at that rate, we use at a half an ounce
19 an acre, and we'd look at that and we'd say, okay, half
20 an ounce an acre is not a problem.

21 We have the ability to do two things in that
22 instance. It's not geographic, but we could go back to

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1 the registrant and say, you know, if the maximum anybody
2 needs is a half an ounce an acre, why don't you change
3 your label and we're golden, there's no problem at half
4 an ounce an acre.

5 If they go, no, because in California, they
6 really need it at a full ounce an acre, what we could do
7 through the bulletin is say, if you're using this product
8 at more than half an ounce an acre, then these
9 limitations apply. So, we can address it. It wouldn't
10 be geographic specific, but it would be use specific.

11 MR. CONLON: Thank you.

12 MR. JONES: All right, Matthew, last question.

13 DR. KEIFER: I just wanted to make a point that
14 I felt doesn't relate specifically to this topic, it
15 relates to the previous discussion and I'll try and make
16 it quickly. But I felt there was -- we had not come to a
17 conclusion on that. I would like to make -- I would like
18 to state that the PPDC should make a formal
19 recommendation to the Environmental Protection Agency to
20 pursue the development of diagnostic and biomonitoring
21 tools related to the discussion we had before. And I'd
22 like to make it a formal statement so that we keep it on

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1 the table. And these will assist in the assessment of
2 exposed individuals and populations, and the tools should
3 extend to the diagnosis of acute and chronic effect and
4 the biomonitoring of workers who have exposure.

5 In addition, the EPA should actively support the
6 delivery of these tools into the hands of clinicians,
7 researchers and public health professionals. I would
8 like to make that as a formal recommendation for the PPDC
9 to consider to endorse.

10 MR. JONES: Well, I'll do what I did yesterday,
11 does anybody want to second that?

12 (No response.)

13 MR. JONES: They're not quite prepared to
14 endorse that. So, perhaps we'll have more dialogue
15 around that later. I think actually I know one place
16 we'll have more dialogue on that and that is when we get
17 into the registration review work group, that specific
18 issue can be something that we talk about when we're
19 looking at a specific chemical. There may be others for
20 us to have that further dialogue as well.

21 UNIDENTIFIED FEMALE: Can I propose then that we
22 keep that on the next agenda to have some kind of an

1 update at that point and maybe get into that discussion?

2 MR. JONES: You can propose that. What I think
3 I'm inclined to do is to see how the dialogue goes at the
4 work group level around that topic, which I think we'll
5 have an experienced -- fact-based experience to talk
6 about, which is a little more concrete.

7 Okay, so that's, obviously, a very difficult
8 issue, endangered species, that we are going to try to
9 figure out ways to bring the committee more -- get the
10 committee more engaged around it. It is clearly a very
11 big part of what we're going to be doing in registration
12 review. I think that one of the things that -- just like
13 all other elements of our program, it really does
14 meaningfully engage, it requires a significant investment
15 on the part of the stakeholders to understand what we're
16 doing, and I think we've provided not only a nice
17 overview here today and in other fora like this, but
18 we're using our website in other ways in which you can
19 become familiar with what we're doing. I think Arty's
20 suggestion of looking at, actually, one of these
21 assessments can be one of the best ways to inform
22 yourselves of how we're at least doing the assessment

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1 aspect of it.

2 All right, well, thanks to Steve and Arty, I
3 appreciate it.

4 We are going to take a two-minute break -- no,
5 I'm just kidding. We are going to take 10 minutes. So,
6 it's five after 11:00. We will reconvene --

7 **(A brief recess was taken.)**

8 MR. JONES: All right, we're going to get
9 started. The issue of nanotechnology was raised by a
10 couple members of the PPDC at our last meeting with just
11 sort of a curious question about what is EPA, OPP in
12 particular, how are we thinking about nanotechnology. We
13 had, at the time, just begun to form a work group inside
14 of the office because we were also, as many of you are,
15 we're reading the newspapers, we're talking to our
16 colleagues and understood that nanotechnology was an
17 issue that was likely to confront us sooner rather than
18 later. So, we wanted to get a little bit ahead of it.
19 Arguably, we're still a little bit ahead of it, but we
20 have yet to see an application for a product of
21 nanotechnology.

22 Our colleagues in the Toxics Program actually

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1 have the lead in EPA and, as you would imagine,
2 industrial chemicals generally is where EPA is first
3 likely to see applications of nanotechnology. So, what
4 we're going to do here this morning is the chairs of our
5 nanotechnology working group in OPP, Jack Housenger and
6 Betty Shackleford, who I think are familiar to most of
7 you, are going to walk you through sort of what our
8 initial thinking is around nanotechnology and then we'll
9 open it up for some feedback questions. So, Jack and
10 Betty.

11 MR. HOUSENGER: Thanks, Jim. There was some
12 speculation by some of my friends about why Jim chose
13 Betty and I to head up this work group, and there was
14 some thought that maybe because we were both short and
15 that's --

16 (Laughter).

17 MR. HOUSENGER: But I think --

18 MR. JONES: You guys aren't short.

19 (Laughter).

20 MR. HOUSENGER: So, I drew the nano straw and
21 I'm doing the presentation today. Betty's my clicker.

22 (Laughter).

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1 MR. HOUSENGER: The first slide just tells about
2 the scope of the presentation. I wanted to give you some
3 background on what nanotechnology is, how it's being
4 used, what's the Federal Government's role, what EPA is
5 doing, and finally, the good stuff, what we're doing.

6 The definition -- the working definition that's
7 bantered about a lot is really three parts. One is the
8 size, 1 to 100 nanometers in any direction; unique
9 properties, enabling novel applications; and the third
10 part is deliberately engineered. So, when we talk about
11 nanotechnology, if it's naturally occurring, it isn't
12 considered to be part of that.

13 This slide is virtually in every presentation
14 that I've seen, so I thought I needed to include it in
15 this one. It just kind of gives you a scale of things,
16 both manmade and naturally occurring. Next slide.

17 Again, this is just putting things into
18 perspective. You can see carbon nanotube that I'll talk
19 about a little bit later down at the bottom. It gives
20 you a sense of how small we're talking about. Next
21 slide.

22 In terms of the current application, this is

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1 just a chart that lists a lot of them. My favorite here
2 is the nano pant that actually are self-cleaning, water
3 resistant, stain resistant. I haven't found any of those
4 yet, but I guess you wash them in your silver ion washing
5 machine.

6 As you notice, too, there's a lot of cosmetics
7 and sunscreens that are used in nanotechnology or have
8 nanotechnology application. Next.

9 Future applications, the more I read, the less
10 smart I think I am, and I was talking to one of my
11 colleagues about -- you know, you read about all the
12 things especially in terms of cancer treatments and
13 things like that that are planned for nanotechnology, and
14 I say, I feel so dumb. There's a lot of smart people out
15 there. And he reminded me that there are a lot of stupid
16 people out there, too, which made me feel better.

17 (Laughter).

18 MR. HOUSENGER: But in terms of some of the
19 future applications, biological sensors; detection of
20 specific compounds in the environment that could lead to
21 more rapid human health and environmental protection;
22 food packaging, that nanotechnology would be a part of

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1 that would warn consumers when food isn't safe to
2 consume; pesticides, where nanotechnology is included in
3 a pesticide and it won't release its pest-killing
4 abilities until it's inside the targeted path; and then
5 in cancer treatment where you take a silica sphere coated
6 with gold, inject it into the bloodstream, it goes into
7 and targets the tumor. They zap it with infrared light,
8 it heats up and it kills the tumor.

9 So, it's pretty amazing all the applications
10 that are at least on the horizon.

11 So, those are kind of the up-sides of
12 nanotechnology. We're going to talk a little bit about
13 our concerns and questions. Because of their size, the
14 exposure could be an issue. In other words, if you
15 breathe it in and it gets deep into your lungs, then it
16 could cause responses that larger inhaled materials
17 don't. They're so small that they can penetrate the skin
18 more easily and actually get into cells and affect
19 viability and potential immune system effects.

20 On the environmental side, we also have issues,
21 issues regarding many of the nano materials are more
22 durable and, therefore, they remain in the environment

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1 longer after they are used and disposed of. We're also
2 uncertain about the effect on beneficial microbes from
3 nano materials with antimicrobial properties. We don't
4 know about how this is -- how plants uptake it and the
5 effects that result from it.

6 So, what is the Federal Government doing? In
7 December of 2003, the 21st Century Nanotechnology
8 Research and Development Act was signed which ultimately
9 resulted in the creation of the National Nanotechnology
10 Initiative.

11 The NNI, as it's called, establishes research
12 and development goals and priorities for the Federal
13 Government. It invests in research and development
14 programs and coordinates federal nanotechnology programs.

15 On the budget side, in terms of federal budget,
16 nanotechnology budget has been increasing over the years.
17 In 2001, \$464 million was spent, whereas today over a
18 billion dollars is being spent every year. Agencies with
19 the biggest budgets include Defense, Energy and the
20 National Science Foundation. Spending has been in two
21 major areas, environmental health and safety issues and
22 education and research on broad implication.

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1 The environmental health and safety spending has
2 been steadily increasing from about \$35 million in 2005
3 to an estimated \$39 million last year and a request for
4 \$44 million this year.

5 EPA's budget on nanotechnology is estimated to
6 be about \$5 million in '06 and a request from the
7 President's budget for \$9 million in '07.

8 Total U.S. spending, which includes the feds,
9 the states and private industry, is estimated to be about
10 \$3 billion a year.

11 So, what is EPA doing? In 2004, the Science
12 Policy Council created a cross-cutting work group to
13 develop a white paper. The work group was chaired by ORD
14 and OPPT and had representations from all major programs,
15 as well as the regions and the Office of the General
16 Counsel.

17 The white paper described the environmental
18 benefits, identifies risk assessment issues and research
19 needs and provides recommendations for next steps. It's
20 undergone both public and peer review comments. We've
21 revised that paper, and on September 25th, the Science
22 Policy Council approved it. It's currently being

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1 prepared for publication.

2 This slide lists some of the key recommendations
3 in the white paper. Some of these recommendations have
4 changed in the most recent version based on peer review
5 and public comment, and as I said, that document will be
6 published in the near future.

7 Other EPA offices' activities include the Air
8 Office, under the Clean Air Act, is reviewing an
9 application for registration for nanosized diesel fuel.
10 OSWER held a workshop this summer on nanotechnology and
11 waste management practices.

12 Probably the office most involved or most
13 activity with nanotechnology is OPPT. Many nanoscale
14 materials are chemical substances as defined by TSCA.
15 Those not on the TSCA inventory are new chemicals and a
16 pre-manufacturing notice is required before it can be
17 manufactured. There's presently no similar requirement
18 for those chemicals that are already on the TSCA
19 inventory.

20 Some of the needs that OPPT has identified are
21 listed on this slide, a mechanism to get the data needed
22 to perform solid risk assessment; an interim approach to

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1 obtain better informed decision-making on new chemicals
2 and realize oversight of existing chemicals; and an
3 industry stewardship in the manufacture and use of new
4 and existing nano materials.

5 So, for now, OPPT is receiving, reviewing pre-
6 manufacturing notice submissions on nano materials.
7 However, some have met the size parameters, most haven't
8 met all three parts of the definition. In other words,
9 they haven't met the unique properties and/or the
10 deliberately engineered criteria. So, they aren't
11 considered technically to be nano technology.

12 OPPT has met recently with several companies on
13 pending new chemical nano materials and their general
14 approach thus far has been to permit limited manufacture
15 of nanosized new chemicals under appropriate controls
16 through the use of consent orders and significant new use
17 rules.

18 In June of 2005, OPPT held a public meeting to
19 hear suggestions how it best could manage the risk from
20 nano materials. NPPTAC, a federal advisory committee,
21 asked that it be allowed to provide additional input
22 through a public process, and in May of this year, an

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1 agency work group was established to explore the concept
2 of a stewardship program.

3 On October 18th, Jim Gulliford sent a memo
4 inviting public input on the stewardship program. You
5 can see the components of it here. Participation would
6 be voluntary. It's viewed as a complement to OPPT's
7 current regulatory approach for new and existing
8 chemicals. While the program believes that we'll gain
9 experience with risk assessment and mitigation of nano
10 materials and gain insight on the test data needed to be
11 developed.

12 One of the activities discussed in the white
13 paper was the need to conduct some case studies on nano
14 materials. Currently, there are two chemicals that are
15 being looked at as candidates. One is this titanium
16 dioxide and the other is carbon nanotubes. The goal
17 would be to identify research needs, to gain experience
18 and then to identify needs for conducting risk
19 assessments for nano materials. I don't think these have
20 been absolutely chosen. Those are the two that have come
21 to light. No one told me not to mention them, so I did.

22 (Laughter).

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1 MR. HOUSENGER: They're looking at a spring
2 timeframe for these case studies to be completed.

3 So, finally, we get to where it's OPP on
4 nanotechnology. How does OPP plan to regulate
5 nanopesticides? FIFRA requires a finding of no
6 unreasonable adverse effects, regardless of whether
7 something is defined as nanotechnology or not. That is
8 all pesticide products are held to the same standard and
9 we must consider both active ingredients and inert
10 ingredients.

11 Do we have any currently registered
12 nanopesticides? I know that there's been a lot of talk.
13 Some products have been identified, but we're not
14 currently aware of any. Some companies have claimed that
15 nanopesticides -- that they have nanopesticides and we
16 have been informed by others that they think their
17 competitors' products are nanos. However, when we
18 checked on these, we found that they did not fit the
19 definition of nanotechnology.

20 We have had discussions with some registrants
21 about future submissions of nanopesticides. So, we know
22 at some point in the future we will be receiving them,

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1 but none have been submitted so far.

2 OPP faces some of the same challenges as other
3 programs in assessing the potential risks posed by nano
4 materials. How do we adequately assess the health and
5 safety of nanoscale pesticides? Are current testing
6 requirements adequate? How do we identify that a
7 pesticide's active ingredient or inert ingredient is
8 nanosized? And maybe the biggest challenge is being able
9 to make good sound science decisions so we don't hold up
10 whatever benefits nanopesticides could bring.

11 Like I said before, Jim asked Betty and I to co-
12 chair a work group charged with developing a regulatory
13 framework for nanopesticides. We've just recently formed
14 that work group. It has representatives from most
15 divisions, as well as OGC. The work group will respond
16 to applications as they are received and help inform
17 policies and testing requirements for nanopesticides.
18 Next slide.

19 This is a group of our -- or a list of our group
20 with all the expertise listed. You can see it's a fairly
21 large group. Virtually every division is represented. I
22 think there's a few people from the group that may want

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1 to stand up just so you can see their face. You know who
2 you are. It's not as good of a turnout as we had hoped
3 for, but --

4 (Laughter).

5 MR. HOUSENGER: I'm sure the other ones are
6 working on nano issues.

7 Next slide, please.

8 So, this slide lists the areas that the work
9 group is exploring to help us in our charge. One
10 important aspect will be training and education because
11 we realize that we have a lot to learn in this area.

12 The work group goals include learning from
13 others, including offices within EPA, other agencies and
14 other countries. We want to ensure that when we do
15 receive our first application for a nanopesticide, that
16 we are as prepared as we can be. There is many potential
17 benefits from nano materials, but as with anything new,
18 there's a lot of concern about the unknown. We need to
19 ensure the public that we are making the right decisions
20 and clearly explain why. We also need to provide clear
21 guidance to pesticide registrants of any additional data
22 that may be needed and why as early in the process as

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1 possible.

2 A couple things that industry can do to help us
3 out, engage early in the process; share whatever plans
4 you have on nanotechnology far in advance of the
5 submission; and if you think you do have nanotechnology
6 in your products already, identify them, certainly
7 identify them before they come in.

8 I think the public can also help us by sharing
9 their information and concerns on nanotechnology and
10 providing comment and input to what we put out for
11 comment and public review.

12 So, in summary, we will be proactive in
13 communicating and identifying our needs as we progress.
14 We'll work with others in identifying a health protective
15 and efficient way of evaluating nanopesticides, and we
16 hope to develop a clear, transparent and scientifically
17 sound regulatory framework. That's it for my
18 presentation.

19 MR. JONES: Thank you. Okay, Gary?

20 MR. LIBMAN: Has there been any thought to maybe
21 incorporating things that actually have been registered
22 already as nanotechnology? I'm even thinking of

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1 something like the BTs, the (inaudible) the active
2 ingredient is not the microorganism, but it's actually
3 the endotoxins that is produced. So, it's actually at
4 the nano level, if you will.

5 UNIDENTIFIED FEMALE: I guess the question would
6 be, does it meet the definition, the three-part
7 definition of a nanotechnology?

8 MR. HOUSENGER: Would it, would it?

9 UNIDENTIFIED FEMALE: Probably not.

10 MR. HOUSENGER: Probably not. That's not
11 deliberately engineered.

12 MR. JONES: And I think what's probably more
13 important is that it behaves the same way as the material
14 from which it's derived, which is one of the real keys
15 here. If it doesn't behave the same way, then it argues
16 for additional testing. If it behaves the same way as
17 the material from which it's derived, there may not be as
18 much need for additional testing around it. That's one
19 of the real key elements to nanotechnology from a
20 regulatory perspective we're concerned.

21 Caroline?

22 CAROLINE: What you just said makes me very

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1 curious because isn't the delivery mechanism a very key
2 feature of this that we'd be worried about in terms of
3 unintentional releases? Hello, Jack? I'm talking to
4 you, buddy.

5 (Laughter).

6 MR. HOUSENGER: I mean, certainly exposure is a
7 big component of this and I -- and we're concerned about
8 that. I think the real question is if it's the same
9 material, it's just nanosized, is what we already have --
10 is the data that we have adequate to assess the toxicity
11 or whatever with this. I don't think we know enough yet
12 about that to comment on it.

13 CAROLINE: That would be a key question, right?

14 MR. HOUSENGER: Yeah, yeah.

15 CAROLINE: The unintentional release issue would
16 be a key part of this, right?

17 MR. HOUSENGER: Um-hum.

18 CAROLINE: So, we do see parallels here with
19 biotechnology, do we not? So, the same set of
20 characteristics might be of concern.

21 MR. JONES: Well, the --

22 CAROLINE: Because we keep having these releases

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1 with biotech, not every day, but periodically.

2 MR. JONES: There may well be products of
3 nanotechnology that have the same ability to reproduce in
4 the environment, which is the feature of the
5 unintentional release of biotechnology that I think
6 people get focused on. So far the things we've seen --
7 which we certainly don't feel like we've seen all the
8 potential applications by any means -- don't involve that
9 element of being able to reproduce it again in the
10 environment. It doesn't mean that unintentional releases
11 wouldn't be of concern, but that aspect of unintentional
12 release so far is something we've seen.

13 Jennifer?

14 MS. SASS: Well, first of all, thanks for the
15 presentation, Jack, and also thanks to EPA for putting
16 this on the agenda and thanks to the team who came,
17 because I am the one that kept pushing to get it on the
18 agenda and I do think it's a really important issue.

19 I thought the presentation was really good. I
20 want to bring up some of the things that I guess I do in
21 my presentations when I do nano tox presentations all
22 around the country. First of all, on your slide 12, all

1 your numbers are right, of course, but just to clarify,
2 there's been a lot of actual taking a real close look at
3 where that environmental health and safety issue spending
4 is going, and almost all of it is going on environmental
5 applications, uses, R&D. And, actually, according to the
6 Woodrow Wilson Center for International Scholars who did
7 a very rigorous review with the agencies as well, only
8 \$11 million is actually going on targeted health and
9 safety testing.

10 So, that means that we have over a billion
11 dollars going towards research and development and about
12 \$11 million spread across the agency that's actually
13 trying to keep up with that research and development in
14 terms of doing the health and safety testing (inaudible)
15 these things are being used in a lot of commercial
16 applications already.

17 On slide 14, which is on the white paper, I was
18 on that expert advisory committee. That was an expert
19 scientific review of the white paper and I don't see it
20 on the list and maybe it didn't get into your final
21 version, but I want to point out that every single expert
22 on that committee was in agreement in recommending that

1 the federal agencies use their statutory authorities to
2 request data and also test samples so that they can run
3 tests on them. Both of those were difficult to acquire.

4 So, while I'm extremely sympathetic to the lack
5 of data in this area, that expert panel pointed out that
6 you do have statutory authorities that can be used to
7 gather that data. You don't have to sit and wait for
8 voluntary programs.

9 (Inaudible). Oh, on 18 --

10 MR. JONES: On that point, we recognize we
11 certainly have statutory authority.

12 MS. SASS: Right.

13 MR. JONES: And we will likely exercise -- I
14 think what we're struggling with is, you know, I don't
15 want to necessarily require a test on a nano material
16 that actually doesn't tell me anything. It may be that
17 there needs to be a different test. So, one of the
18 issues we're going to have is sort of backed up from do
19 we use the authority? Yeah, we're going to use it. The
20 question is, we ought to use it appropriately and make
21 sure we're asking for the right information for the right
22 compound.

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1 MS. SASS: The right samples, yeah. And --
2 well, you know this, but you also have to consider the
3 purity of the sample and the commercial formulation. I
4 mean, this is a complicated issue. I'm very sympathetic
5 about how complicated this is, which is why I wanted this
6 on our agenda for PPDC so that we could begin to follow
7 this issue early, because it is so complicated and it's
8 so important.

9 On Slide 18, I like your definition of unique
10 properties and deliberately engineered or deliberately
11 engineered. Is that why nano silver -- the biocide nano
12 silver wasn't considered a nano material is because it
13 doesn't have unique toxicological properties from silver
14 because silver is also a biocide? Is that why nano
15 silver was determined not to be a nano product?

16 MR. HOUSENGER: I think -- you mean in the
17 washing machine?

18 MS. SASS: (Inaudible) washing machines and food
19 storage and now Japan is putting it all over their mall
20 door handles and bus handles and it's apparently in
21 condoms now. I mean, it's like -- yeah, I know you don't
22 regulate that, but that's a pretty wide exposure.

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1 So, whatever you're thinking about it, I'm
2 thinking about it in a lot of things from a public health
3 perspective, so as a biocide in food storage containers
4 and clothing.

5 MR. HOUSENGER: Yeah, I mean, silver's used a
6 lot as a biocide. Whether it's nanotechnology is going
7 to be dependent on the three-part definition again. We
8 haven't received any applications for nanosized silver so
9 far. So, it might be, it might not be. I'm not sure
10 yet.

11 MS. SASS: Well, I just searched the web and
12 actually Sharper Image did have a very clear definition
13 of the nanosilver that they were putting into their food
14 storage containment units that they're selling. It's
15 like this Tupperware product they sell, but now it's off
16 the web. So -- and like a month ago it was on the web.
17 So, I'm guessing that you called them and asked them if
18 it was nano.

19 MR. HOUSENGER: I did not call the Sharper
20 Image.

21 MS. SASS: All right, I'm using my way-backs to
22 go find that. I'll get back to you.

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1 MR. JONES: Jennifer, I will say that we are
2 saying people use the term, but then when you look into
3 the term, it doesn't meet the definition.

4 MS. SASS: I know, I know. And vice versa, too,
5 yeah. No, the labeling and public information problem is
6 huge. This is why I think we need regulations.

7 On 19 and 20, it's sort of the same issue. The
8 voluntary program, which I was also part of the NPPTAC
9 subcommittee that developed that paper and reviewed it.
10 It is a good program, I think. I think the framework is
11 good for gathering -- for developing sort of a corporate
12 stewardship to develop and submit voluntary data,
13 voluntary health and safety testing data to the agency.
14 But there is nothing in that paper except, to be honest,
15 for what got put into the appendix because I insisted on
16 keeping it in the agenda, so it got annexed, where the
17 EPA has told us what action they're going to take upon
18 that data.

19 So, although these voluntary tools are good
20 tools for data gathering, they put no onus on the EPA to
21 actually take action on that data no matter what it says.
22 So, that's a real concern for me. And I don't -- while

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1 I'm supportive of the data-gathering effort, I don't
2 think it should be confused with the regulatory effort.
3 I do think we need to think about regulation and the
4 reason why is it it's already out there.

5 MR. JONES: For everyone else's benefit, that
6 relates to our sister office, OPPT, which is the Office
7 of Pollution Prevention and Toxics, that's going to be
8 running a voluntary program.

9 MS. SASS: Right.

10 MR. JONES: I think Jack mentioned in the
11 pesticide world where we have to make an affirmative
12 safety finding before licensing a product, it's not going
13 to be a voluntary program. If you have a nanopesticide,
14 you have to come to us and get it licensed, which is a
15 mandatory requirement.

16 MS. SASS: And the data gathering can also be
17 mandatory and you have statutory authority to do that
18 right now.

19 Page 24, this is the one on your challenges,
20 these are challenges and these are really big challenges,
21 and, you know, I'm going to throw my weight behind
22 getting you as much funding and resources as you need to

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1 meet those challenges with your sister agencies. But the
2 last one, making decisions based on sound science, you
3 don't have time because these products are already out
4 there. So, I want you to think carefully about what
5 you're going to do in the absence of a full body of data
6 because that's the situation you're going to be
7 confronted with. And I'm promoting precautionary action
8 in the face of lack of data because that's the situation
9 you're really going to be in in real life.

10 I don't want to sit where we're sitting now, you
11 know, with the rest of the pesticides and with lead and
12 mercury and asbestos having this conversation after we've
13 already put lead in our gas tanks, for example. We have
14 the opportunity now not to allow those exposures to
15 happen until we have data.

16 On 26, this is your list of your work group and
17 I want to really commend you on putting it together. I
18 think this is a really full work group and especially on
19 including industrial hygienists and inhalation
20 toxicologists. This is going to be so important. I
21 think most of what we do know about the hazards of nano
22 comes from what we know about fine air particulates and

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1 ultra fine air pollution and also metal fumes,
2 epidemiology from occupational studies, and the finer the
3 particle, the more damaging it is, the more toxic it is.
4 So, I'm glad you included industrial hygienists and I
5 would encourage you, and I'm sure you are, to keep worker
6 exposures at the forefront.

7 That's it. Thank you.

8 MR. JONES: Thanks. Okay, Kristie Stoick and
9 then Ray, then Jose. Is that Pat? Is yours up? Okay.

10 MS. STOICK: Hi, thanks for your presentation.
11 You talk about there's going to be opportunities for the
12 public to provide comment and input to the work group.
13 Can you talk about that a little bit more? What are
14 those opportunities going to be? Do you have an idea yet
15 or not?

16 MR. HOUSENGER: Well, I mean, to be honest, our
17 work group has met twice so far. We're just starting to
18 get our feet wet in terms of understanding some of the
19 issues that we're going to have to be developing. But, I
20 mean, I could envision a policy paper that lays out how
21 we're handling certain things. We're going to be
22 developing our own little white papers. I'm not sure

1 what the public access to those will be. I mean, some of
2 it is educating ourselves to get up to speed to be able
3 to anticipate some of these issues.

4 So, I think my point was if we do go out with
5 something for the public, please (inaudible) in it. If
6 we don't and you have concerns, let us know.

7 MS. STOICK: Okay, thank you.

8 MR. JONES: Ray.

9 MR. McALLISTER: You've clearly said that you
10 have not identified any nano materials either currently
11 registered or in the pipeline. But Jennifer's telling us
12 products are out there. Those two statements appear to
13 be in conflict.

14 MR. HOUSENGER: Jennifer's telling you that some
15 claim to be out there and --

16 MS. SASS: I'm speaking beyond pesticides, more
17 than pesticides.

18 MR. JONES: Definitely if there are
19 nanopesticide products out there, we're not aware of them
20 and we need to become aware of them. So far, when we
21 have become aware of them, it turns out they really
22 aren't, and then it's a claims issue as opposed to it

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1 really is nano material. But that doesn't mean we have
2 full knowledge around this. To the extent that anyone
3 has such knowledge, if you bring it to us, we'll follow
4 up.

5 MR. McALLISTER: Is there any evaluation being
6 done of products to determine if there's a nano material
7 that may not be claimed? How would you do that?

8 MR. HOUSENGER: Well, I think that's one of the
9 challenges that we have. That's one of the --

10 MR. McALLISTER: Yeah, in our looking into this
11 so far, we're not aware of any nano products for
12 pesticides, just as you've said, that have either
13 currently registered or are on the horizon. There are
14 some micro technologies using pesticide formulations, but
15 that's a long distance in actual scale from the nano
16 materials.

17 MR. JONES: Jose and then Pat and Jimmy.

18 DR. AMADOR: My question is related to the same,
19 there's no nanopesticides registered in the U.S. How
20 about internationally? Is there anything registered
21 internationally as to nanopesticides?

22 MR. HOUSENGER: I don't know the answer to that

1 question. I don't know if anybody else here does or not.

2 MR. McALLISTER: The U.S. has the benefit of the
3 latest pesticide technology.

4 DR. AMADOR: I didn't hear you, Ray.

5 MR. McALLISTER: The U.S. has the benefit of the
6 latest pesticide technology.

7 MR. JONES: Pat.

8 MR. QUINN: I'm just trying to get a sense for
9 how you think this is going to evolve. Do you think that
10 you're going to learn enough through the interagency
11 discussions so that you'll be able to make selections
12 about test methods that you might use when such a
13 material arrives at your doorstep? I mean, are you aware
14 of test methods that might be out there that you consider
15 now?

16 MR. HOUSENGER: I mean, this is one thing that
17 our work group is exploring, what research has been done,
18 what test methods are there, what's the likelihood that
19 those test methods will work for us, are there any
20 bridging data that we could do to see, you know, early on
21 if these things behave the same or not, you know, human,
22 animal. I wish I had the answers to those, but I --

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1 MR. JONES: Ideally, that's how it would work,
2 Pat. But my experience is that because we have an
3 affirmative requirement to license -- you have to be
4 licensed in this program, which would be true if it were
5 a drug, too, but other than that in the United States,
6 that's not required before you can be on the market. And
7 when that is the context you're operating in, even if
8 we're not out front, we become out front because there
9 will be -- if some applications are sitting here, there
10 will be a general expectation broadly that we figure out
11 how to evaluate that application.

12 MR. QUINN: Right.

13 MR. JONES: So, although the ideal is that we'll
14 be able to learn from our colleagues around the
15 government about how to test, when we have an application
16 sitting in front of us, it's not going to be acceptable
17 to Congress, to the submitter and to others that we wait
18 for 10 or 15 years to figure out how to evaluate the
19 safety of it, and it's not going to be acceptable to us
20 that we make a decision without understanding the safety
21 of it. So, that will sort of, I think, be what forces
22 the action if the interagency process is not giving us

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1 those tools.

2 MR. QUINN: Right. But, I mean, I can also
3 foresee a path where something does arrive at your
4 doorstep, it meets the definition, test methods have not
5 been identified, you guys feel an obligation to go ahead
6 and select a correct test method, that could be an
7 extremely lengthy process, you know, with all the
8 implications that that has. I mean, while we obviously
9 need to be concerned about the tox side here, my
10 understanding is that many of micronized technologies
11 offer very significant environmental benefits
12 potentially, and so, I'm just trying to figure out how
13 you're looking at that trade-off and whether the goal is
14 really to kind of get prepared or to have a case put in
15 front of you (inaudible).

16 MR. JONES: You know, ideally, we would be ready
17 when that first application shows up. Do we know how to
18 test it, we know what the requirements should be, and
19 will that deal be achieved, you know, that's what we're
20 working towards. But safety is going to come first and
21 we're going to want to make sure we understand that it's
22 safe before we put it on the market. Frankly, I think

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1 that that's in everybody's interests, as much in the
2 industry's interests as it is in the public interest
3 community. The last thing you need is for us to put
4 things on the market that you're then responsible with
5 the liability of --

6 MR. QUINN: We don't want to go down the biotech
7 road again.

8 (Laughter).

9 MR. JONES: We had Rick and Jimmy and Caroline
10 and Jennifer.

11 MR. COLBERT: I hope this is an easy one. Just
12 curious, does nanotechnology -- do you anticipate it's
13 going to pose any jurisdictional issues for FIFRA? How
14 these things are made or how they behave or how they act,
15 whether the pesticide is inert or they just don't quite
16 fit some categories because they're so different or is it
17 all sort of (inaudible) fit very easily?

18 MR. HOUSENGER: I think it will get back to the
19 claim. If they're claiming that they kill pests, then
20 it's our jurisdiction. I don't think nanotechnology is
21 any different from some of the other pesticides that are
22 on the market in terms of jurisdictional issues.

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1 DR. ROBERTS: After I put my card up, some of
2 your discussion may have answered some of my questions.
3 For somebody who doesn't know much of anything at all
4 about nanotechnology, I'm glad that you're putting the
5 work group together. I'm glad to see the presentation
6 today.

7 In light of one of the things that Jennifer said
8 earlier, I'm a little concerned that over a billion
9 dollars is used in developing uses of this and only \$11
10 million is designated to health and safety issues. I
11 wonder if there's plans in the EPA budget to work more of
12 the dollars into health and safety issues.

13 UNIDENTIFIED FEMALE: Can I give an observation
14 about how the money has been allocated over the last
15 couple, few years? If you look at federal expenditures
16 going back to 2003 -- well, 2004, 2005, 2006, what you
17 will see is that each agency's budget, as it specifically
18 focuses on nanotechnology, has increased. In other
19 words, the agency has been given more money than they've
20 asked for. That includes EPA.

21 So, in terms of whether or not more dollars will
22 be available, I think there's certainly a recognition

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1 that there needs to be a substantial expenditure in the
2 area of nanotechnology. I think one of these things that
3 the agencies are grappling with is we have to be able to
4 move a program forward fast enough to be able to use
5 those monies in a way that are going to answer the
6 questions at hand.

7 So, that's one of the things I think that we've
8 seen is that the money is being made available. It may
9 not be in a proportion that some think might be
10 appropriate, but certainly agencies have been getting
11 more money than they've requested.

12 MR. JONES: And we would be happy to pass that
13 perspective along. We are not the ones involved in
14 making those decisions, but we can figure out how to pass
15 that observation perspective along. Appreciate it.

16 Caroline, Jennifer.

17 CAROLINE: Well, I think the point about not
18 going down the biotech road is obviously in all of our
19 minds here today because we have done it (inaudible) all
20 of us. I think the international perspective is really
21 important, too, because that's a great divide for
22 biotech. I thought that Jose's question was really

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1 important. So, it would be really very important to
2 bring this issue in front of the international groups
3 that EPA works with.

4 MR. JONES: Thanks, appreciate that, and we
5 agree with that. There's actually an OECB meeting next
6 week which we and our colleagues at OPPT will be at which
7 is going to have a nanotech agenda item on it and we'll
8 make sure we're learning as much as we can from our
9 colleagues around the world.

10 Jennifer?

11 MS. SASS: It's a budget question. It's not a
12 question really. But you guys need more money and you
13 should ask us to get more money. The Department of
14 Defense is actually getting 27 percent of the nano
15 budget, the NNI federal budget for '07, and the
16 Department of Energy, if I'm correct, is getting about 23
17 or 24. So, basically, the Department of Defense and
18 Department of Energy together are getting about half of
19 the budget and, actually, EPA is getting less than 1
20 percent. I think it's getting .75 percent of that
21 budget. If you consider that EPA is the only agency
22 that's going to be doing the kind of state and transport

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1 out into the environment, that kind of testing, at least
2 it's the most qualified to do that, and that's what's
3 primarily allotted in the white paper in its research
4 agenda that it's recommending.

5 I don't think that's adequate because all of the
6 other agencies are going to be looking at how to get this
7 out, and EPA, I don't think, is going to be able to keep
8 up with what the potential impacts are once it gets out.
9 And if PPDC can help to increase that budget and steer it
10 towards that really important research, I think that you
11 should use us.

12 MR. JONES: Well, everyone in jobs like mine
13 like to say or don't like to say, but say we're not --
14 one, I support the President's budget; secondly, that it
15 is actually a violation of federal law to ask a federal
16 official to ask someone to lobby on our behalf for money
17 or anything else. So, I would never do that. But thank
18 you for your comment.

19 (Laughter).

20 MR. JONES: Matthew, last word.

21 DR. KEIFER: Yes, I'm fascinated by the fact
22 that at the same time EPA is taking this on as a topic,

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1 NIOSH is beginning to understand and doing the research
2 and supporting some of the research with their very
3 paltry budget, I might add, about how these things might
4 affect workers. And unlike pesticides which clearly were
5 there before EPA was created, and a lot of worker
6 exposures were there before EPA, NIOSH and OSHA were
7 created, this is coming right online while we can do the
8 research about the health effects of workers and we can
9 get out there and not just understand their effect on
10 workers, but the one thing about environmental and
11 occupational health is, we always understand that worker
12 exposure means population exposure, but in a microcosm
13 and at a higher level.

14 I mean, I have to say we do use workers -- the
15 health effects on workers to understand the health
16 effects on population because we know they're usually
17 exposed to the higher levels.

18 So, I'd encourage EPA to work with NIOSH, work
19 with OSHA as they develop regulations concerning
20 exposures to nanotechnology and support ATSVR (phonetic)
21 in the process of exploring and getting together a team
22 on the forefront of research in terms of its health

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1 effects. These people are doing that work now. I think
2 even NIHS is supporting some activity in nanotechnology
3 research.

4 So, I'd just encourage you to try and form
5 partnerships with these organizations who will be able to
6 share a lot of information.

7 MR. JONES: I appreciate those insights. All
8 right, we're going to wrap this session up. I'm glad we
9 had an opportunity to begin to share with you our initial
10 thinkings around this. I'm quite certain this is a topic
11 that we'll spend time with each other in the future on.
12 So, an early look at nanotechnology in the pesticides
13 context.

14 Okay, we have my colleague from the Office of
15 Science Coordination and Policy, Cliff Gabriel, who many
16 of you I think know, but some may not, who is going to
17 give us an update on the Endocrine Disruptors Screening
18 Program, which is a program that many of you are probably
19 somewhat familiar with, but it's going from a development
20 stage into, in the coming year, an implementation stage.
21 So, we thought it was an opportune time to have Cliff
22 come and talk to the PPDC. Thanks, Cliff.

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1 MR. GABRIEL: Thanks, Jim. It's a pleasure to
2 be here. I met with this group I guess a little over a
3 year ago and gave you an update. I understand that
4 there's been considerable turnover, so I think what I'll
5 do is sort of walk you through the Endocrine Disruptor
6 Screening Program 101 and then spend some time towards
7 the end focusing on the progress we've made since we last
8 met.

9 So, the program, for those of you that don't
10 know, derives its authority from the FQPA. Specifically,
11 these were modifications to the Federal Food, Drug and
12 Cosmetic Act that required the agency to develop a
13 screening program using validated assays and I stress
14 validated assays -- you'll see that's very important as
15 we get further along in this presentation -- to identify
16 pesticides that may have estrogenic effects in humans.

17 The statute also gave the administrator broader
18 authority to look at other endocrine effects and also to
19 deal with effects in species other than humans, for
20 example, you know, wildlife species.

21 The same year, the Safe Drinking Water Act was
22 amended to provide the agency with discretionary

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1 authority to look at chemicals found in sources of
2 drinking water if there's a determination that there's a
3 substantial portion of the public that's exposed to those
4 chemicals.

5 So, taking our lead from the statute, you know,
6 we established the Endocrine Disruptor Screening Program
7 in 1999, and this program was influenced greatly by the
8 Endocrine Disruptors Screening and Testing Advisory
9 Committee, and also by public comment and through advice
10 from our Scientific Advisory Panel, and also from our
11 Scientific Advisory Board.

12 In particular, the EDSTAC provided the agency
13 with a lot of recommendations that really laid the
14 groundwork for what this program was to look like. In
15 particular, they focused on needing to look at not only
16 estrogenic effects, but also androgens and thyroid
17 effects, to broaden the program past humans to ecological
18 effects. They also recommended a broad universe of
19 chemicals be looked at, not only pesticide chemicals, but
20 again other chemicals that -- where you may have
21 significant exposures.

22 And, importantly, they recommended a two-tiered

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1 approach with tier one consisting of in vivo and in vitro
2 screens. Basically, what this tier would do would
3 indicate the possibility that a chemical could interact
4 with the endocrine system. And then depending on the
5 outcome of that battery of screens to go into more
6 detailed tier two testing, which would provide the agency
7 with the data for hazard assessment and for risk
8 assessment in general.

9 The program is divided up into three principal
10 components. The first component is assay validation.
11 When the program was established in -- or when the
12 statute was passed in 1996, there really were no
13 validated assays for the agency to draw on to construct
14 either the tier one battery or the more detailed tier two
15 tests. So, we've had to work very carefully with our
16 partners in OECD, with the interagency groups, like the
17 interagency coordinates a committee for the validation of
18 alternative methods, ICCVAM, with our Office of Research
19 and Development, basically going through the very
20 exacting procedures for making sure that the assays that
21 we're utilizing in this program are, in fact, validated.

22 You can see on this slide some of the steps that

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1 are involved in terms of doing the detailed review paper.
2 Essentially, this is a literature search pulling together
3 all of the data on a given assay. Looking at issues of
4 relevance, optimizing the protocol. You know, a lot of
5 these assays have been used in research settings, you
6 know, for many, many years and there was the assumption
7 by many that the validation process would be fairly
8 straightforward given the long history of use. It didn't
9 turn out that way, unfortunately. And the agency, again
10 working with our partners, really has done quite a lot of
11 work in optimizing the protocols and, again, making sure
12 that these assays are, you know, transferrable across
13 laboratories and are producing the types of reliable data
14 which would enable the agency then to rely on them for
15 regulatory purposes.

16 This slide is new to you. There's been
17 significant progress in the validation process for many
18 of the tier one assays. What I have here on this slide
19 are our best estimates as of yesterday in terms of when
20 the various assays in the tier one screen would be
21 through peer review, which would be the last stage of the
22 validation process. And you can see that, you know,

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1 certainly an important step is the third from the last
2 where you have the peer review of the battery. And,
3 again, we hope to have the battery peer reviewed by the
4 end of next year.

5 But, again, I mean, these dates all hinge on how
6 successful we are in the peer review process. So, there
7 could be some setbacks, maybe not. But, again, I'm
8 optimistic that we'll be able to move forward with the
9 validation by the end of next year.

10 And moving on to tier two, these have further to
11 go. We've certainly considered the Mammalian 2-
12 generation assay. That's part of the current battery of
13 tests that's being validated and suitable for the
14 program. We're still in the development stage in some
15 cases, optimization stage certainly, for these other
16 assays, the Avian, Amphibian, Fish and Mysid assays.

17 Our expectation is that these should be complete
18 in the '09-'10 time frame, which I think will probably
19 work out pretty well given the fact that the data from
20 the tier one screening should be arriving on our doorstep
21 about then. So, it should provide for pretty smooth
22 transitioning to the tier two assessments.

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1 The second part of the EDSP is the priority
2 setting process. As you remember, I said that the EDSTAC
3 recommended that this program cover as many chemicals as
4 possible, I think. The estimate was something on the
5 order of 87,000 chemicals. Well, clearly, you know, that
6 would be quite a job, to say the least. So, the
7 recommendations that we got from the Scientific Advisory
8 Panel and the Scientific Advisory Board was to take a
9 first bite of this apple. Basically, develop a list of
10 say 50 to 100 chemicals to start this program off.

11 And what we've done in September of last year,
12 we published the final approach for how those chemicals
13 were going to be selected. It's important to note that
14 this list will not be a list of chemicals that we think
15 are endocrine disruptors. This is a list of chemicals
16 that was developed based on human exposure. What we've
17 done is we've looked at pesticide actives and high
18 production volumes, inerts within pesticides products,
19 and looking at various databases that have exposure
20 pathways. So, for the pesticide active ingredients, we
21 have the four pathways to include food, water,
22 residential and occupational exposures. For the

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1 pesticide inerts, we have essentially the biomonitoring
2 data, the NHANES data, things like that, and the fish
3 data, water and air.

4 So, there are multiple databases that were
5 consulted for each of these pathways. And essentially
6 this is tallying up, you know, which chemicals land in
7 more pathways. The more pathways these chemicals are
8 found in, then the higher priority that it be, you know,
9 making the first cut for the first 50 to 100 chemicals.

10 And just roughly, you can see here that we have
11 about 1,100 active ingredients. We have more than 600 on
12 one or more pathway lists. We have about 100 of these
13 active ingredients on three or four pathway lists. And
14 it's a similar sort of analysis for the inerts. We have
15 about 650 inerts with fewer than 100 on one or more
16 pathways, with about 15 on three or four pathways.

17 There are some chemicals that we've excluded
18 from this list, specifically those chemicals that were
19 used as positive controls in the development of the
20 individual assay, also chemicals where there's a low
21 potential to cause endocrine effects, and we have strong
22 acid (inaudible), you know, polymers, things like that.

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1 We also felt that the program wasn't quite ready to deal
2 with chemical mixtures yet, but that's something that
3 will certainly be coming, and also chemicals that are no
4 longer produced or used in the U.S.

5 In terms of next steps with the chemical
6 selection process, essentially we will be publishing in
7 the spring, probably late spring, I hope, a draft list of
8 chemicals seeking comments from the public, and then
9 publishing the final list in time for the tier one
10 screening, again, hopefully by the end of '07.

11 For the last part of this, to make it all work,
12 is the various procedures that are going to be required
13 to actually implement the testing. By procedures, I'm
14 referring to things like appeals, data confidentiality
15 issues, data compensation issues. The statutes mentioned
16 all of these, but didn't provide the agency with a lot of
17 new statutory authority to do much about them. So, to a
18 certain extent, we've had to rely on existing programs,
19 existing procedures, and we're still in the process of
20 sorting a lot of those out.

21 But, you know, clearly we're in the process of
22 putting an ICR together. We have to have that in place

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1 before we can start testing. And, also, we will be using
2 the FFDCA Section 408(p) authority. That's the authority
3 that's provided in the SBCA.

4 And, again, our hope is that all these documents
5 -- well, certainly, all these documents will be available
6 for public comment and they will be finalized by the end
7 of '07 or early '08. So, again, this is in keeping with
8 our desire to implement the tier one screening as soon as
9 possible.

10 You can tell that there are a lot of pieces here
11 that have to come together in a very short period of
12 time. There's a lot of work involved in making this
13 happen. A good deal of uncertainty, especially as it
14 relates to the peer review process, making sure that
15 these assays are, in fact, adequately validated. So,
16 it's going to be an intensive year for my staff working
17 on this. But I am optimistic that we'll be able to
18 achieve this time line. But it will be an interesting
19 year, to say the least.

20 The last slide is just a pictorial of the time
21 line that, you know, lays out some of the things that I
22 was talking about. The first bar across you have the

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1 initial list for the first 50 to 100 chemicals being
2 published early in '07, finalized by the end of that
3 year. Similarly, with the development of the procedural
4 framework, a similar type of time line. Probably the
5 publishing of the draft procedures and ICR will be
6 somewhat later than the publication of the draft list,
7 but it will be along the same lines. Again, finalized by
8 the end of next year.

9 And then the validation for the final peer
10 review of the tier one screening will happen towards the
11 end of next year as well. So, that's where we are. The
12 staff's been very busy trying to make it happen. It was
13 and is a major undertaking for us and for the agency.
14 There is certainly increased interest in this program,
15 particularly coming from the Hill. The press articles
16 and work on (inaudible) fish in the Potomac (inaudible)
17 where it certainly has increased the visibility of this
18 program. We've had oversight hearings by the House
19 Government Reform Committee, and I expect that as we get
20 closer and closer to the end of next year, the interest
21 will only increase.

22 So, I'm happy to answer any questions you might

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1 have.

2 MR. JONES: Thanks, Cliff. Caroline?

3 CAROLINE: Cliff, I want to congratulate you for
4 putting together this thing. This is a program, you
5 know, and this thing has been sitting on zero for I don't
6 know how long. So, you've done a tremendous job pulling
7 this whole thing together and I just want to commend you
8 for that.

9 I was just tracking right along with you and
10 nodding my head until we got to the slide about priority
11 setting. And I know this was an issue with the EDSTAC
12 and, you know, you've got a resource issue and I'm on
13 board on all of that. But convince me that using the
14 four pathways is the way to go here because there must be
15 a lot of chemicals that -- or a good number of chemicals
16 that fit that criteria that you don't have any reason to
17 think are endocrine disruptors.

18 I know there was a lot of politics around the
19 lists, the various lists that got published, I get all
20 that. But isn't there some additional way to screen
21 these things so we can really get at the ones we think
22 are endocrine disruptors?

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1 MR. GABRIEL: Well, certainly, you could look at
2 some effects data. I mean, the sense of the group at the
3 time was that there weren't sufficient effects data to
4 use them in a way that really informed the development of
5 an initial list along the lines of what we did and that
6 the most straightforward way would be to do it, you know,
7 based on exposure.

8 You know, one of the things that we're looking
9 at doing is after we, you know, get the experience with
10 the first 50 to 100, is then partnering with our sister
11 offices within the agency and, you know, look at what
12 their testing requirements are, whether it's for Office
13 of Water related programs, whether it's in OPPT or the
14 Toxics Program, and try to make sure that, you know, the
15 tools that we've developed here are used in a way that
16 accelerate and is complementary to their regulatory
17 needs, and I'm sure at that point that there will be the
18 type of analysis that you're talking about.

19 CAROLINE: So, you think from using these
20 criteria you have, these exposure criteria, that you'll
21 be able to develop this indicator that will narrow it
22 down? I mean, my only -- in an ideal world, you'll want

1 to test everything and I think that's basically what the
2 EDSTAC did. But your resource --

3 MR. GABRIEL: Right, exactly. So, we have to do
4 this in a way that makes the most sense. The most sense
5 from a resource perspective and the most sense from a
6 regulatory perspective.

7 CAROLINE: Okay, tell me again which -- how many
8 chemicals do you see in each one of these categories?

9 MR. GABRIEL: In each one of?

10 CAROLINE: These two categories you've got here,
11 the four pathways.

12 MR. GABRIEL: I believe there were around 100
13 active and -- that was in all -- three or four pathways
14 and about 15 inerts in three or four pathways, which
15 actually -- I mean, that was done -- I don't think the
16 SAB or the SAP had that information when they
17 recommended, you know, screening 50 to 100, but it turned
18 out pretty close.

19 CAROLINE: How much money is that going to cost?
20 You know, I looked at the time line up there. The time
21 line is greatly accelerated from where we were. But what
22 is it going to cost to look at 100 actives?

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1 MR. GABRIEL: You know, we're in the process of
2 filling that out right now; in particular, you know,
3 getting into the ICR, information collection request
4 process. So, I don't have good numbers to -- you know,
5 to give you at the moment.

6 CAROLINE: The reason I asked that is I just
7 want to get an idea of how realistic it's going to be
8 with your timetable.

9 MR. GABRIEL: Well, this will be done through a
10 testing order. So, this will be a shared expense with
11 industry. There's certainly a resource issue when it
12 comes to the agency handling an analysis of the data once
13 it comes in. But the actual testing of these chemicals
14 will be borne by industry.

15 CAROLINE: Okay. Well, if we could, maybe at
16 the next meeting, get a further assessment on the cost
17 and --

18 MR. GABRIEL: I'd be happy to do that.

19 CAROLINE: Okay, thank you.

20 MR. JONES: John and then Christie and then
21 Caroline Cox and then Ray.

22 DR. SCHELL: Cliff, I want to second what

1 Caroline said. You're doing a great job. This is a lot
2 of work. Not to make things more complicated, but on the
3 slide with the validation update and tier one assays, is
4 there a process or an approach that you can add assays to
5 it as technology changes, like pneumonic and photonic
6 (phonetic) (inaudible) like that?

7 MR. GABRIEL: Yeah, certainly, you know, science
8 doesn't stand still, and as new assays are developed, new
9 assays are validated, I'm sure there will be
10 substitutions, there will be modifications. We're trying
11 to especially move away from some of the in vivo tests,
12 you know, if we could move to more in vitro tests once we
13 have a better understanding of all the various modes of
14 action that we have to screen for. So, yeah, I mean, I
15 think that, you know, we would anticipate further
16 developments and refining of all these methods. I think
17 we'll know an awful lot more, too, after we get done
18 looking at the first 50 to 100 or so.

19 DR. SCHELL: Have you given any thought to how
20 you would modify this, Cliff, to the extent it's changing
21 all the time?

22 MR. GABRIEL: Yeah, yeah, yeah. I mean, I would

1 imagine the way we would do it would be, you know,
2 through interactions with the Scientific Advisory Panel,
3 the Scientific Advisory Board, you know, bringing
4 recommendations to them, making sure that the assays,
5 whether tier one or modifications to the tier one battery
6 that we are, in fact, capturing all of the -- whether
7 it's (inaudible) points of concern or modes of action
8 that the regulatory programs might have an interest in.

9 DR. SCHELL: Thank you.

10 MR. JONES: Thanks, John. Christie.

11 MS. STOICK: Thank you. I have a question on
12 the same slide actually about the tier one battery or the
13 tier one assays. I'm a little confused as to how --

14 MR. GABRIEL: They're not all going to be ready
15 at the right time.

16 MS. STOICK: Well, no. How the battery -- is
17 that meant to imply the battery of all tier one assays?

18 MR. GABRIEL: Yes. Well, all tier one assays
19 that are currently ready to do. I mean, EDSTAC developed
20 a battery or the recommended assays, it included a fair
21 amount of redundancy. So, we believe that we'll have a
22 sufficient number of assays validated to provide the

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1 necessary coverage for the three hormone systems that
2 we're interested in. So, it will be the estrogenic
3 effects, androgenic effects and thyroid effects.

4 MS. STOICK: But so before the last (inaudible).

5 MR. GABRIEL: Right. In that case, for example,
6 with the estrogen receptor binding assay, that those
7 effects would, in fact, be captured by the uterotrophic
8 (phonetic) assay.

9 MS. STOICK: I think I have one final question.
10 On the slide, chemicals to be excluded from initial
11 testing, just a clarification. Can you address why
12 chemicals no longer produced or used might be addressed
13 in future rounds of testing?

14 MR. GABRIEL: Yeah, now that's a good question,
15 and I looked at that and didn't have a chance to ask my
16 staff why that had an asterisk at the end of it. But,
17 yeah, I would imagine that, you know, perhaps there could
18 be products in other countries, for example, you know, a
19 certain residual exposure or -- you know, I could imagine
20 that there would be reasons why you'd want to do that.
21 They might not be real high in your priority list,
22 however.

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1 MS. STOICK: Right. So, that would be few and
2 far between?

3 MR. GABRIEL: Yeah, I would imagine.

4 MS. STOICK: Okay, thanks.

5 MR. JONES: Caroline and Ray.

6 MS. COX: I wanted to follow up on the other
7 Caroline's questions about the priority setting. One
8 thing that occurs to me, if the selection is supposed to
9 be based on exposure, the pathways are important, but I
10 can certainly imagine a situation where you have a
11 chemical that has maybe just one or two exposure
12 pathways, but the magnitude of those exposures is so
13 great that it would maybe outrank a chemical with more
14 exposure pathways, and I hope that you're going to
15 include that in the priority setting process.

16 MR. GABRIEL: The one caveat to that is that
17 exposures through the food pathway would have a higher
18 priority. You know, this was not an exercise in looking
19 at absolute exposure to all of these chemicals. We just
20 didn't have, you know, the time or resources or probably
21 data to actually do that. This was really looking at
22 whether or not, you know, a chemical was listed in one of

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1 the databases that hit one of these exposure pathways,
2 again with the caveat that if it was a food exposure,
3 that that would carry more weight than some of the other
4 exposure pathways.

5 MS. COX: And my second comment has to do with
6 the registration review and hoping that we can develop
7 some of this endocrine disruption data in time to use it
8 in the registration review. So, I hope that that would
9 feed into the priority setting process so we don't end up
10 with a situation where the registration review was
11 completed a year before the endocrine disruption
12 screening was completed.

13 MR. GABRIEL: Jim and I are talking a lot about
14 this.

15 MR. JONES: That's actually the plan.

16 MR. GABRIEL: Right.

17 MR. JONES: Other than the first group of 50 to
18 100, after their testing is done, which doesn't
19 necessarily synchronize with registration review;
20 although there's a subset of those chemicals that are in
21 the first four years of registration review, it's
22 ultimately going to be implemented through registration

1 review.

2 MR. GABRIEL: For the pesticides.

3 MR. JONES: For the pesticides. For the non-
4 pesticides --

5 MR. GABRIEL: There will be other (inaudible).

6 MR. JONES: (Inaudible). Ray?

7 MR. McALLISTER: With the list of tests, it
8 looked like about a dozen there, I didn't count for
9 certain, but with those tests becoming available or
10 completing their validation cycle over a period of time,
11 how are you going to schedule them? What's the scheduled
12 testing? That, combined with the identification of
13 priority lists, does a chemical wait until all the tests
14 are available before there's any test or does each
15 chemical do every test?

16 MR. GABRIEL: No. With the tier one tests,
17 those would be done at the battery. So, when the order
18 is -- this first 50 to 100 is issued, you know, the
19 requirement will be that the chemical will be tested
20 through -- you know, with all the tests and the battery.
21 Unless they were used as a positive control in the
22 development of that assay, then they would be (inaudible)

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1 from that test.

2 So, you know, I think given the fact that
3 there's going to be resource issues not only with the
4 agency, but also with testing labs, companies we can work
5 with, you know, there will be ample time given to make
6 sure that the testing actually gets done and that the
7 testing time line is reasonable.

8 MR. McALLISTER: What about the time line for
9 the testing labs to get the necessary experience to do
10 these (inaudible)?

11 MR. GABRIEL: That's my point.

12 MR. McALLISTER: Okay.

13 MR. GABRIEL: This is the first time out for
14 some of these assays. So, we're anticipating that
15 there's going to be a lag phase, if you will, in getting
16 labs up to speed, you know, making sure that processes
17 are clear in terms of the agency receiving the data. I
18 mean, this will be the first time through. So, you know,
19 I'm sure there will be some hiccups, but we'll certainly
20 try to be as reasonable as we can be.

21 MR. JONES: All right, well, thanks very much,
22 Cliff, for coming in and joining us here this morning. I

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1 appreciate it.

2 Our last item this morning on the agenda, or
3 this afternoon -- I guess it's the first one of the
4 afternoon, last one of the meeting -- is a brief follow-
5 up to an item that this group has talked about before,
6 and that relates to alternative non-animal testing. And
7 Tina Levine, who's the Director of the Health Effects
8 Division in OPP, and Pat Quinn, a member of the PPDC, are
9 going to take us through this topic.

10 MR. QUINN: Okay, for those of you who are
11 worried that what Tine and I were going to do was show
12 you a lot of eyeballs and slides on depth of injury,
13 we're not going to do that today, even though some of you
14 have been through that in the past and we don't intend to
15 do that. This is not a formal work group of the PPDC,
16 but it is an informal initiative that grew out of a
17 fairly widespread interest on the part of antimicrobial,
18 as well as agricultural registrants, animal welfare
19 groups, environmental groups several years go.

20 I guess I want to say at the outset that it has
21 not progressed -- this initiative has not progressed as
22 quickly as we would have liked. It, in fact, is more

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1 complicated to put together paired animal and non-animal
2 data of the kind that is persuasive to the interagency
3 group that reviews such things, which is called ICCVAM,
4 which includes participation by FDA and CPSC and the
5 Federal Trade Commission. So, we have spent more time
6 generating data than we anticipated, not new animal data,
7 but non-animal data.

8 I guess I also want to say at the outset that
9 there are nine companies participating and they are all
10 in the antimicrobial sector, Jim Wallace's company, S.C.
11 Johnson has been a real leader in the effort, as well as
12 Proctor and Gamble, and I think it's important to
13 understand that the motivations here are not cost,
14 they're not timeliness, they're not certainty. Each one
15 of these companies, I think, recognizes that it will be
16 more costly to run the non-animal assays, that they may
17 very well end up with judgments on the part of EPA
18 reviewers, and I was happy to see Tim McMahon and
19 Jonathan Chen in the room from AD because they are our
20 clients on this. It may very well be the case that they
21 get more conservative toxicity category decisions as a
22 result.

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1 So, each one of these companies, I think, is to
2 be commended for what I call their corporate ethic on
3 these issues.

4 And, finally, I think what our objective here
5 today is, is just to share with you some progress that's
6 been made on the initiative because we are now probably
7 about three months away from submitting what's called a
8 background review document to ICCVAM for its
9 consideration.

10 So, why don't we go -- I don't know where we are
11 here.

12 MS. LEVINE: I don't know where we are, either.

13 MR. QUINN: So, what's important to understand,
14 I think, about this is that the goal is for ICCVAM to
15 approve a set of assays that would be used for eye and
16 dermal irritation to be alternatives to the Draize tests
17 which are now in place and have been in existence for 60
18 years. A good deal of progress has been made on ex vivo
19 and in vitro assays that allow for judgments to be made
20 of the kind that we're talking about here.

21 And this is the other important thing to
22 understand. This is not a typical broad validation

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1 exercise involving all products, all chemicals, all
2 sectors. This is an attempt to do a pilot so that we can
3 go ahead and see if we can identify assays that work for
4 a narrow class of products, namely antimicrobial cleaning
5 products where there are an unusually robust database,
6 and for a very specific regulatory purpose, namely to
7 allow EPA reviewers to make decisions about category
8 toxicity decisions. That's all we're talking about.

9 It may be self-evident, but what we're trying to
10 do as an overview here is look at the in vitro
11 information that we have, and I think this is really
12 where we found we have more data to generate. We've had
13 to go ahead and run some of the assays at the in vitro
14 institute out in Gaithersburg, Maryland, so that we have
15 a substantial amount of paired animal and non-animal data
16 available. As I said before, the objective here is to
17 make available these alternatives for EPA category
18 labeling decisions.

19 Tina?

20 MS. LEVINE: So, basically, this slide, I think,
21 pretty much says what you just said. What we're doing is
22 we're gathering the extant data on eye and skin

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1 irritation, both from animal and non-animal tests, and
2 then we're filling in some of the gaps at least on the in
3 vitro side, and we're trying to develop a way to compare
4 the in vitro data with data from the Draize tests and
5 also from the low volume eye tests, and develop a
6 background review document that will be reviewed by
7 ICCVAM.

8 And there are -- I think there are eight or nine
9 -- these are the eight companies that -- I think they
10 were presented at the last ICCVAM meeting -- that have
11 submitted data and are assisting us in developing the
12 information we need to prepare this background paper.

13 For the eye irritation studies, there are three
14 alternative tests that are being looked at. The
15 Cytosensor assay and the EpiOcular assay are both assays
16 that tend to be good for distinguishing labeling in the
17 mild to moderate range, and the Bovine Cornea Opacity and
18 Permeability assay, BCOP, is better for those agents that
19 have more severe eye irritation effects.

20 On the dermal side, there's an in vitro study,
21 EpiDerm, and then there are also data on human skin patch
22 tests.

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1 MR. QUINN: I'd just say since human studies
2 have been such a lightning rod issue and Jim has had the
3 pleasure of sitting through now several HSRB meetings
4 with a very independent and active outside board of
5 advisors on these matters, the human testing would be
6 used in this case for confirmatory purposes, if
7 necessary. We're actually working -- I am -- pretty
8 closely with John Carley (phonetic) and Bill Jordan
9 who've headed up a lot of the agency's efforts and it's
10 quite likely the HSRB will look at some dermal irritation
11 tests of the kind that we might use here at the January
12 and spring meetings of the HSRB.

13 So, what progress have we made? We've gotten to
14 a point where we've got data that's been blinded,
15 confidentiality has been assured. We've got about 330
16 animal studies, 280 with full information and 500 in
17 vitro studies, about 160 of those are paired with animal
18 data. As Tine described, we've found that you can't
19 select just one assay for this group of materials, for
20 the eye irritation side. You really need to have a
21 couple that look at products, end use formulations, at
22 the more mild end of the spectrum, and then use the BCOP

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1 assay, the bovine ocular assay for testing of more severe
2 or corrosive materials.

3 We've, as I said, been spending quite a bit of
4 time filling the gaps with testing, but the BRD is now, I
5 would say, 70 to 80 percent prepared. Let's go to the
6 next slide.

7 We just briefed -- Bill Stokes is the head of
8 ICCVAM, the interagency testing validation entity, and we
9 went down to North Carolina and briefed Bill about two
10 months ago, and then just recently here in the past
11 couple of weeks, Glen Sowers (phonetic) from Proctor and
12 Gamble and Roger Curran (phonetic) from the In Vitro
13 Institute briefed the Ocular and Dermal Testing Working
14 Group out at NIH in a briefing that a number of people
15 here attended.

16 I do want to acknowledge Tina's leadership on
17 this and she was there and made very valuable
18 contributions to the discussion.

19 John Redden (phonetic), I also want to
20 acknowledge for some of his colleagues in the room. He's
21 been an important player in all of this.

22 And so, what we're looking at we think now is

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1 submitting a background review document in the spring,
2 hopefully be back to you guys in May to report on how
3 ICCVAM has responded to the proposed testing regime, and
4 the objective here is to have something teed up for you
5 guys to consider and then for EPA to consider as
6 alternative science policy or an interim science policy
7 on the alternative tests by the end of next year.

8 MS. LEVINE: I have a couple of more slides. I
9 just wanted to -- I'm pinchhitting for (inaudible) who
10 was also a member of the Ocular and Dermal Technical
11 Working Group. When she saw that there was a discussion
12 of alternative methods on the agenda, she asked me to
13 bring something to your attention, and I think there are
14 a couple of handouts in your materials.

15 In the 2006 Appropriations Bill, there was some
16 language put in asking the ICCVAM to develop a five-year
17 plan that addresses research, development, translation
18 and validation of new and revised non-animal and other
19 alternative assays to be integrated into federal testing
20 programs. The specific language is in your handouts.
21 There is a process that involves public participation,
22 and I think that's why we wanted to draw it to your

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1 attention.

2 OSCP, that's Cliff Gabriel's organization, is
3 going to organize the EPA priorities. NIEHS will
4 organize all of the federal agencies' priorities. And as
5 I said, the process to develop a five-year plan includes
6 opportunities for public comment on the criteria for
7 selection and the draft priority list. I think a time
8 line for how this plan is going to be developed is also
9 in your handouts. Since there was public participation,
10 we wanted to get it to your attention as early as
11 possible. Thank you.

12 MR. JONES: Thanks. For those of you who are
13 newer to this committee, this issue was brought to the
14 PPDC several years ago by a narrow group of the PPDC, the
15 consumer products representatives here as well as the
16 animal rights representative here or your predecessor.
17 Although the broader group didn't want to actively
18 participate in it, the broader PPDC wanted to be kept
19 apprised as this moved forward, and we were very serious
20 at EPA about non-animal test methods. And although the
21 consumer products element of it wasn't that interesting
22 to everybody, I think everyone had some sense that they

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1 wanted to keep apprised because future efforts could be
2 of real interest whether you're from the other parts of
3 the industry or the public interest community. So, we
4 committed to doing that and that's why we came back and
5 do come back periodically to give you an update on where
6 this effort is.

7 Are there any questions or comments? Christie,
8 did you have a --

9 MS. STOICK: Yeah, I just -- I want to just
10 quickly introduce myself to the -- I know I've met a few
11 of you. I am Troy Seidle's replacement, Christie Stoick.
12 Feel free to come to me with anything. I was a little
13 late yesterday running between meetings, so I apologize.
14 I just wanted to really express my thanks to Patrick and
15 Tina and EPA for this initiative because for the animal
16 welfare communities, the Draize test in particular is a
17 little bit of a lightning rod and we're really happy to
18 see at least this portion move through and have something
19 happen on it. So, thanks.

20 MR. JONES: Thank you. Any other observations,
21 comments, questions?

22 (No response.)

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1 MR. JONES: All right, Pat and Tina, thanks very
2 much.

3 I believe we have one public commenter.
4 Bernalynn McGauffy (phonetic). I saw Bernalynn earlier.

5 (No response.)

6 MR. JONES: Okay, all right. Okay, in terms of
7 follow-up, I don't think I necessarily have the solutions
8 to the issue we saw coming up yesterday, and I can expect
9 it playing out again in some of our other work groups and
10 that's around the performance measures. The issue --
11 very generic issue actually. I don't think it's at all
12 just related to that, which is that we're relying more on
13 work groups, although we're getting pretty robust
14 participation. Some of the work groups have over half of
15 the PPDC membership on them. Obviously, not everybody is
16 in every work group and how we -- what we can do to avoid
17 having the people who didn't participate have to recreate
18 it in the full committee, then you've sort of defeated
19 the whole purpose of the work group and we'd never have
20 enough time to have that kind of deliberation, while at
21 the same time making sure that they have enough knowledge
22 of what we have done to meaningfully participate when we

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1 bring work group recommendations to the full committee.

2 So, Lori, if you have any thoughts on that, I'd
3 be happy to get your perspective.

4 MS. BERGER: Well, yeah, I just wanted to --
5 first, it's been a very good meeting. I really
6 appreciate the breadth of information here. But this
7 work group issue, I wanted to underline a comment that
8 Bob Rosenberg made yesterday about if we could maybe
9 review the process of the work group so that when -- you
10 know, the work group -- I thought the Performance
11 Standards Group did a really good job yesterday in
12 summarizing their points and then it was almost like
13 their efforts were somewhat derailed in the larger work
14 group. I think for those of us spending time in work
15 groups, it's kind of discouraging because you kind of
16 feel like you get to a point where -- closure is not the
17 right word, but a certain level of understanding or
18 presentations to the larger group -- and I'm sure they
19 must have felt kind of discouraged that now they're
20 starting over at square one.

21 So, I think because there's so many work groups
22 going on now on some extremely complex topics, you know,

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1 worker protection and spray drift, it would be really a
2 good time to kind of review with everyone the process and
3 where we can agree to disagree and kind of let it move to
4 the next level.

5 MR. JONES: That's (inaudible) why don't I do
6 that. Every one of you is going to ultimately want to
7 have the same right preserved if something comes forward
8 that you're like, I cannot sign on to that. So, I think
9 it's important that we solve it because a solution will
10 solve everyone.

11 Work groups -- FACA committees can have
12 subgroups that work in a more focused way on a topic.
13 However, recommendations to EPA or to any government
14 agency using a FACA need to be brought to the full
15 committee. There's a process that is brought to bear to
16 make sure we have adequate representation on the full
17 committee and you're appointed to the committee, unlike
18 the work group which is much less formal. So, only the
19 FACA committee, you, can actually make a recommendation.

20 So, what has been worked out over time with the
21 FACAs is that the work group brings its product to the
22 full committee for the full committee to decide whether

1 or not it wants to endorse it or not. Again, if any of
2 you saw something on any topic that came from a work
3 group and you were asked to endorse and you felt you
4 couldn't do that based on who you were representing or
5 your own personal views, you can say I can't endorse
6 that.

7 Now, we can just sort of capture that and say,
8 you know, this part of our FACA recommended it, these
9 parts didn't. But I think it's usually worth one more
10 effort to see if it's just about getting everyone's
11 perspective to be captured in a recommendation. I think
12 you do that one extra try and then you say, okay, well,
13 this part of our FACA could endorse it and this part
14 couldn't and that information goes back to EPA.

15 So, that's sort of how we've worked our work
16 groups. I think that one of the process issues that
17 we'll want to build in is a product of a work group
18 getting distributed to -- not only distributed to all of
19 the members, but with an opportunity -- which we did in
20 the case of the performance standards, but we then didn't
21 say, and if you have any issues with this -- oh, by the
22 way, we're going to ask you if you can recommend this

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1 paper to the EPA as advice at our meeting. So, if
2 there's anything in here that you're uncomfortable with,
3 please speak now so that we can try to bring this to
4 closure at that meeting. That's probably a step we'll
5 want to build into all of our work groups. It's a review
6 loop as opposed to here's the document for consideration.

7 I mean, that's one idea we could use to --
8 again, the other thing is that in the work group
9 environment, you don't have to have consensus. You can
10 just talk about this group thinks this and these group of
11 people think that and the third group are thinking this.
12 We weren't able to all come up with a single. Or you
13 could choose to instead try to compromise to get
14 something that everybody can sign on to. Either of those
15 approaches are fine.

16 So, that's the process and, again, I think that
17 what I tried to protect in that situation is something
18 I'd want to protect for anybody who said I can't sign on
19 to that. I would like to get to a place, though, where
20 everyone's had an opportunity before this meeting to say,
21 I have a problem with this, not just an opportunity,
22 because everyone can join every work group, but we'll

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1 never want to achieve that. It would get too clunky.
2 There will have to be some interim step where people can
3 look at it before it comes here and express their issues.

4 Carol? Amy? Sorry, Amy.

5 AMY: Yeah, actually, I was going to suggest the
6 business of trying to bring an interim level one up where
7 you are getting close to -- so that the committee itself
8 knows that this is -- it has to go through a further step
9 and it has to come back to the entire group and there
10 will be times for input from the entire group. I think
11 that's very important, so I'm glad that you left that
12 open. It may be frustrating to those of us on work
13 groups, but the reasons for people not sitting on work
14 groups are because either they don't have the time or
15 they don't feel they have the expertise, and then when
16 the reports come to them, they realize that there are
17 implications that they had not thought of that they
18 actually had some expertise in, and it can be very
19 important for you to capture that. So, I think that
20 would be a huge -- if you can build that into each of the
21 work groups, that will be very helpful.

22 And, also, if there are things that you know

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1 you're going to want a vote on, it would be helpful to
2 not only send it to the members of the full PPDC a couple
3 of weeks before the meeting, but to tell them that we are
4 going to be voting on this at this time so that they'll
5 know that they need to read it ahead of time.

6 MR. JONES: Those are some good ideas. Cindy?
7 I'm sorry, Carol. You never want to give up your space
8 in line. No, go ahead, Carol.

9 (Laughter).

10 MS. RAMSAY: I think that's the best
11 alternative. However, if we end up with a situation
12 where that preparedness wasn't allowed and it really --
13 you know, the work group met the day before and they
14 signed off on the document and you just end up in that
15 situation, I don't know if this would be a viable
16 alternative to where you discuss it like we did the other
17 day in the PPDC and then if you have how many people
18 cannot buy off on this, maybe you have six people that
19 don't, is there a way that those six can provide comments
20 to a smaller group and send out that revised document to
21 the full PPDC strictly just by email and say, can you now
22 live with this amended document, and if you could just

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1 get that approval by email. I don't know if that would
2 fit your criteria or procedure.

3 MR. JONES: Yeah, that's another idea that we
4 should explore. Actually, we may be able to even explore
5 that in the context of the performance standards paper.

6 MS. RAMSAY: Correct.

7 MR. JONES: Cindy?

8 MS. BAKER: I think my comments are similar to
9 what both Amy and Carol said, but I think, also, one
10 possible alternative is to say that, you know, the
11 recommendation that comes from this group could very
12 likely say here are eight points that we have consensus
13 on and here are three that this group feels very strongly
14 about that the rest didn't, so that you have that and so
15 that we can move beyond that.

16 But I also think the point that Bob made
17 yesterday is one that we shouldn't forget, which is that
18 those of us who volunteer for those work groups have an
19 obligation to go back to our constituents and get
20 feedback and bring that in, so that even if not everybody
21 can participate, you know, if it's Ray participating,
22 that Ray and I and Beth talk about what the registrant

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1 from the ag-chem side might view on something like that.
2 So, I think if we try to do our homework along those
3 lines a little bit, I think that will help, too.

4 And I think a little bit in Sherry's defense, I
5 think her email when she sent that paper out, she said,
6 you know, it's coming to the group and we can't do
7 anything unless the group approves it. So, I think she
8 tried to do it. I think some of the ways that you
9 explained it and that Amy talked about would make it
10 clearer for everybody. Read this and be ready to voice
11 your opinion. But I think she did try to lay that out
12 for people.

13 MR. JONES: Right, thanks, appreciate that. I
14 think that one of the -- your idea that you'd say, here's
15 where there was consensus and here's where there wasn't
16 is definitely sort of a next tier -- you know, if we give
17 it one more shot, you can't get that, that would be the
18 place to go. I think that when I know that we've had
19 broad enough participation, one of the things I may do in
20 the meeting is if someone is objecting to a piece of it,
21 I may ask someone who also represents that same part of
22 the stakeholder community to -- well, why don't you

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1 answer that question because you were in the meeting and
2 have people -- but I would like for there to be that
3 coordination amongst you all, but I certainly can't
4 mandate that that -- if you're sort of representing the
5 same general type of -- part of the stakeholder community
6 that you are working together, although obviously that
7 would expedite things and I think make the process more
8 efficient. I think it's a good idea.

9 Frank and then Caroline.

10 MR. GASPARINI: What we faced here is very
11 similar to working for a trade association and having to
12 bring position papers to a board for approval. It's
13 almost the exact same process. And we used to do that,
14 write a position paper, bring it to the board, when our
15 board was smaller, they would approve it. The same as
16 faced here. As this group gets bigger -- our board's
17 gotten bigger and the last few years, if we bring a
18 position paper, just as you suggested, without pre-
19 vetting it with them, they rewrite it and go through the
20 whole process again.

21 So, just as you've suggested, we've gone to a
22 two or three-step process that works very well. One of

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1 the things we've done -- you all use a very -- you pretty
2 much use the same format. I've been on a couple of
3 groups that Anne has led and I've been sitting partly on
4 the worker protection one. You all use a similar
5 practice. We've tried to boil it down even more to a
6 one-pager. Your presentation to the board might be 10 or
7 20 slides, but we try to get it down to a one-pager.

8 I've been using the Wharton-Case (phonetic)
9 method, problem, statement, a teeny bit of background,
10 list half a dozen or maybe even a dozen, a laundry list
11 of possible alternatives that not everybody's going to
12 agree with, in fact, you know many people won't agree
13 with, and then you come down to your recommendation or
14 recommendations. And if we don't have consensus, there
15 might be two or three recommendations for the board to
16 then choose from. This is where the committees came out.
17 There are three alternative recommendations. We like
18 this one, but they're all three suggested, we may not
19 have consensus, and then the board has to decide which --
20 what this group would then do.

21 So, that works out pretty well for us. But it
22 is a longer process than it used to be.

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1 MR. JONES: Thanks, Frank. Caroline?

2 CAROLINE: I just want to commend you for the
3 discussions we had today. I thought they were just
4 great. I think that we're really getting into some good
5 substantive issues and in a timely way, so we have time
6 to react to them, think about them and talk about them.
7 That's really great.

8 I would urge the group, however, as we talk more
9 about the complexities of our process, to remember that
10 this is just advice. You know, we're not voting on
11 anything on the Hill, thank God. Thank God they're not
12 either right now.

13 (Laughter).

14 CAROLINE: So, I think that -- you know, I mean,
15 it's good to perfect our processes and I think work
16 groups are a great thing and I think it's great for
17 everybody to get their input in. You know, I wouldn't
18 want to see anybody feeling like they were excluded at
19 the end of the day. But I do think we ought to remember
20 it's just advice and they're going to take the advice
21 they think really works and they're not going to take
22 advice that they don't think works no matter whose

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1 opinion it is.

2 MR. JONES: That's right, Caroline. I
3 appreciate both of your comments. It's advice and we
4 really want advice or we wouldn't be doing this. At the
5 end of the day, though, we're going to move forward
6 whether we've got a formal recommendation from this group
7 or not. I'd rather have recommendations. Again, as much
8 consensus or as little as there is, I'd rather have that
9 formalized recommendation than not. But we're not going
10 to not do things. We're not going to move forward in
11 this program because this group's unable to proffer an
12 official recommendation.

13 Amy?

14 AMY: Just one more comment in relation to Carol
15 Ramsay's comment about trying to do things, when
16 necessary, by email and have comments submitted by email
17 that we could all read. I would counsel about thinking
18 hard about doing that because if we start doing that, it
19 makes even more of a time commitment for everybody here,
20 and I doubt that 40-some people are going to put in the
21 time commitment that they really need to do to give good
22 comment back.

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1 The other thing is I really appreciate hearing
2 the comments that my colleagues and my peers make and it
3 changes what I might think and it changes how I might
4 vote on a particular issue, too.

5 MR. JONES: That's a good point. Gary?

6 MR. LIBMAN: I agree with everyone who said that
7 -- I think both days were excellent. This particular
8 PPDC series was excellent, I thought. I'm just curious
9 from your perspective. Give us some feedback on a PPDC
10 perspective. When you say that you're doing something
11 and you have the backing of PPDC, does that have an
12 impact? Do people -- does it matter what our advice is?

13 MR. JONES: It definitely matters. I think that
14 the two most -- well, there's three very recent
15 experiences around that where it mattered a lot in terms
16 of what we were doing. The registration review rule
17 would never have happened in the way -- with the
18 substance that it has, nor would it have made it through
19 the process, the interagency process as expeditiously as
20 it did had we not gone through this process. And that
21 was both for process reasons, because we had -- process
22 reasons being that we had stakeholder (inaudible), but it

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1 was also because of the substantive reasons of what
2 people -- the advice that we got. And so, I think that
3 that is sort of the gold standard of how we'd like to
4 operate.

5 Arguably, a procedural rule is going to be
6 easier to do than a rule like the worker protection or
7 the certification and training rule, but I think that's
8 why we're trying to do it that way as well.

9 When we were going through the agency process
10 around -- on the strategic plan, as Sherry said, that
11 everywhere up the chain, people did not want to hear
12 about that there may be these other societal benefits
13 above and beyond public health and environmental
14 protection, and in a licensing program, although you're
15 always ensuring public health and environmental
16 protection, sometimes the action, in and of itself, is
17 supporting some other social benefit. A me-too
18 (phonetic), for example. A me-too is, by definition,
19 neutral to public health and environmental protection.
20 It's the same thing as something already registered. But
21 when you license a me-too, you ultimately lower the price
22 of the product, which drives another benefit. And had it

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1 not been for the work group saying this is an important
2 part of what you people do over there, I don't think we
3 would have been successful in convincing OMB that it was
4 an important element of our strategic plan.

5 The worker protection certification and
6 training, the initial advice we got from the subcommittee
7 was like you're taking on way more than we can possibly
8 digest in the schedule that you've given us. So, we've
9 done a couple of things. One is we're going to take a
10 little bit longer, not much longer, but we're also trying
11 to focus in on what we're trying to do. So, I mean, I
12 think just in the last year and a half there have been a
13 couple of very important examples of how advice we were
14 given has affected how we've moved forward both in
15 substance as well as in strategy and timing. So, I find
16 the exercise to be quite useful for myself as a decision
17 maker in the pesticides program, and that's just off the
18 top of my head.

19 Any other -- yes, Matthew?

20 DR. KEIFER: I just want to express my
21 appreciation for being invited.

22 MR. JONES: We're glad to have you. We're glad

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1 to have all of you. Yes, Bob?

2 MR. ROSENBERG: I think I've been turned off.
3 It's 1:00 and I'm not suggesting we have this
4 conversation now, but at some meetings in the past -- I'm
5 not going to make us be late. At some meetings in the
6 past, we've done some agenda setting or agenda building
7 for future meetings, and I don't know, again, that it's a
8 good time to do that now, but in the course of the
9 discussions that occurred over the last few days were
10 just a couple of things I thought might be worth putting
11 on the list. And you know what, I know if I say what
12 they are, then everyone else has got theirs and then
13 we'll be here until 2:00, so I'm not going to say what
14 they are. But what I was going to suggest -- well, no,
15 if you want, I'll be glad to.

16 (Laughter).

17 MR. ROSENBERG: What I was going to suggest was
18 could we have some opportunity -- I'm sure everybody has
19 similar thoughts or things they heard that triggered
20 other things in their mind. Maybe sometime over the
21 course of the next month or so where the members of the
22 committee could have some opportunity to maybe suggest

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1 some topics that they think might be useful.

2 MR. JONES: Yeah, we'll definitely do that. Why
3 don't I just sort of now segue into kind of some follow-
4 up because the agenda is becoming, and it has been for
5 the three years I've been here, at least half-dominated
6 by our work groups. If you got work groups going on,
7 they're coming back and reporting. But then that does
8 leave the other half or third or whatever is left over.

9 So, why don't I just start with the specific
10 follow-up? On the Performance Measures Work Group, we're
11 going to have one more effort to see if we can bring that
12 to closure, and that may be -- we'll have a meeting here,
13 but I expect many people will participate by
14 teleconference, so that's perfectly fine and we're going
15 to make sure some specific individuals who hadn't been on
16 that work group who said, you know, I really think I need
17 to make a statement, will be specifically brought into
18 that.

19 On spray drift, it looks like there's one more
20 meeting and that group is going to be prepared to bring a
21 report back to the PPDC, and again, we'll be talking to
22 Anne and Jim Hanlon about what kind of mechanism can we

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1 use to make sure those of you who were not on that work
2 group are aware of that early enough to have some
3 feedback before it comes here. So, we'll have dialogue
4 here, but I want to make sure that you've had some chance
5 to have some awareness.

6 Worker protection and the certification and
7 training rules actually have a long list of things
8 they're going to be doing with their work group between
9 now and our next meeting involving revisions of the
10 papers that you all have seen that will hopefully allow
11 that group to come back with some set of recommendations,
12 whatever they may be, around areas where there is
13 agreement or not agreement.

14 And then we are going to initiate a registration
15 review work group that's going to be very -- it's going
16 to be case studies working on specific -- the first
17 couple of chemicals out the gate in registration review,
18 looking at sort of the preliminary choices we're making
19 about, well, we think we need this assessment or we don't
20 think we need an assessment here. We're thinking that
21 this data may be necessary and we made these judgments
22 based on this vast body of information.

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1 If you're interested in that, I know a number of
2 you have already expressed an interest and Margie's got
3 those names. If you are interested, please send Margie
4 Fehrenbach a note, who all of you know, and we'll,
5 between now and the next meeting, pull that together.
6 That group will probably have a first meeting in the
7 February, March, probably not much later than April time
8 frame.

9 So, I definitely see all four of those coming
10 back at the next meeting, and depending on what
11 mechanisms we use, I'm not sure how much additional stuff
12 -- for example, I have this feeling that we could spend a
13 fair amount of time on the spray drift report and the
14 worker protection certification and training, and because
15 they're so important to us, I'm inclined to give them as
16 much time as they may need at this meeting to see if we
17 cannot have to go back to another work group meeting.

18 So, with that being said, we'll solicit some
19 ideas about other topics that you may like to have at
20 that next meeting. We are thinking of an April/May time
21 frame. I'm more inclined to May because I want to get
22 some product out of the two -- some of these work groups.

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1 I know Bill Diamond feels he needs 'til May to get
2 something really concrete on the worker protection
3 certification and training front. Anne may feel the same
4 way on the spray drift. I'm not sure. She may be ready
5 by April or March. So, my gut tells me that May will be
6 the next meeting.

7 And Margie next week will email out to all of
8 you proposed dates. We are very -- we try to avoid dates
9 that create multiple conflicts for multiple people of
10 you. I know this week was also a methyl bromide
11 alternative conference and I know one of our members was
12 able to make it despite that conflict. But one, because
13 I think Dan actually runs that meeting, wasn't able to
14 get back. But it's not ever possible to avoid all
15 conflicts, but we'll try to get some sense from you as to
16 whether we're creating conflicts that hits multiple of
17 you.

18 Okay, so I think we are -- I'm sorry, Carol, did
19 you have one -- Amy definitely gets to sit down there
20 next time.

21 MS. RAMSAY: It's just dates, the sooner we can
22 get them on the calendar, the faster we cannot have them

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1 be blocked off by something else.

2 MR. JONES: Absolutely. We'll try to do that.

3 UNIDENTIFIED FEMALE: Just one suggestion
4 because we had such great discussion today and we always
5 have really good discussion here and there's never enough
6 time. One possibility may be for allowing us a little
7 extra time would be for the program update, particularly
8 like the registration information, could be just a
9 handout that we could get ahead rather than an actual
10 presentation, and then if we have questions --

11 MR. JONES: That's a good point.

12 UNIDENTIFIED FEMALE: -- do we want to ask them.

13 MR. JONES: That's a very good point. All
14 right, well, thank you all for all of your time over the
15 last three days, I think some of you have been here
16 working with us. I really appreciate it. Safe travels.
17 Have a good Veteran's Day.

18 **(The meeting was concluded.)**